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InterPro; IPR003597; Ig_d1.
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Pfam; PF00047; ig; 4.
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1. Immunol. 23:1063-1075 (1986).
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;; IIGE; 15.-JUL-92.
;; IEP5; 30-JAN-02.
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                                                                                                                         FTId=VAR_003885
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                                                                                                                                 POLYMORPHISM)
                                                                                                                                                                                            A HEAVY
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RESULT 2
NAL7_HUMAN
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28-FEB-2003
28-FEB-2003
15-MAR-2004
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                    SEQUENCE FROM N.A.

MEDLINE=22451042; PubMed=12563287;

MEDLINE=22451042; PubMed=12563287;

MEDLINE=2451042; PubMed=12563287;

MALLPs: a novel protein family involved in inflammation.";

NAt. Rev. Mol. Cell Biol. 4:95-104(2003).
                                                                                                                 SEQUENCE FROM N.A.

MEDLINE=22162427; PubMed=12019269;

Wang L., Manji G.A., Grenier J.M., Al-Garawi A., Merriam S.,

Lora J.M., Geddes B.J., Briskin M., DiStefano P.S., Bertin J.;

LORA J.M., Geddes B.J., Briskin M., DiStefano P.S., Bertin J.;

"PYPAP7, a novel PYRIN-containing Apaf1-like protein that regulates

"PYPAP
                                                                                                                                                                                                                                                                                                                           NACHT-, LRR- and protein 3).
NALP7 OR PYPAF3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAND
Homo sapiens (Human)
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                           NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                         HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       151
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          Contains 1 DAPIN
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. 41, Last sequence update)
. 43, Last annotation update)
. 43, Last annotation 'pdate'
PYD-containing protein 7 (PYRIN-containing APAF1-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       159
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Pred. No. 0.19;
D; Mismatches
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Matches 6
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Q9AAX8;
28-FEB-2003
STRAIN=ATCC 19089 / CB15;

MEDLINE=21173699; pubMed=11259647;

Nierman W.C., Feldblyum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,

Eisen J.A., Heidelberg J.F., Alley M.R.K., Ohta N., Maddock J.R.,

Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B.,

Potocka I., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H.,

Kolonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K.,

Witterback T., Tran K., Wolf A., Vamathevan J., Ermolaeva M., White O.

Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.,

"Complete genome sequence of Caulobacter crescentus.";

Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).

Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).
                                                                                                                                                                                                                                                                                                                                           CAUCR
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NP_BIND
SEQUENCE
                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=ATCC 19089 / CB15;
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REPEAT
                                                                                                                                                                                                         Caulobacter crescentus.
Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacterales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR007091; LRR RNinh.
InterPro; IPR007011; NACHT NTPase.
InterPro; IPR004020; PADD DAPIN_dom.
Pfam; PF05729; NACHT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                        THRS OR CC0464.
                                                                                                                                                                                                                                                              Threonyl-tRNA synthetase
                                                                                                                                                                                                                                                                            28-FEB-2003
10-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PROSITE; PS50824; DAPIN; 1. PROSITE; PS50837; NACHT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL;
                                                                                                                                                                                     NCBI_TaxID=155892;
                                                                                                                                                                                                   Caulobacteraceae; Caulobacter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIMILARITY: Contains 1 NACHT domain.
SIMILARITY: Contains 9 leucine-rich (LRR) repeats.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AY154462; AAO18158.; HGNC:22947; NALP7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AF464765; AAL69963.1; -.
                                                                                                                                                                                                                                                                                                                                                                                            93
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                           EDGQVQEID 101
                                                                                                                                                                                                                                                                                                                                                                                                                    EDGQVMDVD 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               980 AA;
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(Rel. 42, Last annotation updat
VA synthetase (EC 6.1.1.3) (Thre
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614
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760
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66.7%;
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LRR 1.
LRR 2.
LRR 3.
LRR 4.
LRR 5.
LRR 6.
LRR 7.
LRR 7.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LRR
ATP
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                                                                                                                                                                                                                                                                                                                             PRT;
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                                                                                                                                                                                                                                                                         update)
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InterPro; IPR004154; HGTP anticodon.

InterPro; IPR004095; TGS dom.

InterPro; IPR002314; tRNA-synt 2b.

InterPro; IPR002320; tRNA-synt thr.

InterPro; IPR002320; tRNA-synt thr.

InterPro; IPR006195; tRNA ligase II.

Pfam; PF03129; HGTP anticodon; 1.

Pfam; PF03129; HGTP anticodon; 1.

Pfam; PF0319; TGS; 1.

Pfam; PF02824; TGS; 1.

Pfam; PF02824; TGS; 1.

PFAM; PF02824; TGS; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                28-FEB-2003
28-FEB-2003
28-FEB-2003
from Bombyx diapause eggs ";
Eur. J. Biochem. 268:3432-3442(2001).
-!- FUNCTION: May play a role in transmitting a signal which both protects nondiapause eggs from cold injury and terminates diag in diapause eggs.
                                                                                                                                                                          Eukaryota; Metazoa; Artn:
Neoptera; Endopterygota;
Bombycidae; Bombyx.
                                                               STRAIN=N4; TISSUE=Egg;
MEDILINE=21315830; PubMed=11422373;
MOTIDE Y., Nilmi T., Yamashita O., Yaginuma T.;
"Samui, a novel cold-inducible gene, encoding a protein with a BAG domain similar to silencer of death domains (SODD/BAG-4), isolated
                                                                                                                                                                                                                                                                                                                       BAGS
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METAL
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PIR; G87306; G87306.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                       Bombyx mori (Silk moth)
                                                                                                                                                                                                                                         SAMUI.
                                                                                                                                                                                                                                                       BAG
                                                                                                                                                                                                                                                                                                          Q9BLJ6;
                                                                                                                                                                                                                                                                                                                                       BOMMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TIGREAMS; TIGRO0418; thrs; 1.

PROSITE; PS50862; AA TRNA LIGASE II; 1.

Aminoacyl-tRNA synthetase; Protein bios; Metal-binding; Zinc; Complete proteome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diphosphate + L-threonyl-tRNA(Thr).
-!- COFACTOR: Binds 1 zinc ion per subunit (By similarity).
-!- SUBRUTI: Homodimer (By similarity).
-!- SUBCELLULAR LOCATION: Cytoplasmic.
-!- SIMILARITY: Belongs to class-II aminoacyl-tRNA synthetase family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   METAL
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                                                                                                                                                                                                                                                   domain-containing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC0464;
                                                                                                                                                                                                                                                                                                                                                                                           41
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340
391
517
655 AA;
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(Rel. 41, Last sequence update)
(Rel. 41, Last annotation update)
containing protein Samui.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                       STANDARD;
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340
391
517
73719
                                                                                                                                                                                            Arthropoda; Hexapoda; Insecta; Pterygota;
gota; Lepidoptera; Glossata; Ditrysia; Bom
                                                                                                                                                                                                                                                                                                                                                                                                                                                            76.6%;
75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Protein biosynthesis; Ligase; ATP-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 36;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZINC
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2; Mismatches
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(CATALYTIC)
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Y SIMILARITY).
Y SIMILARITY).
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               diapause
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WEDLINE-20504483; PubMed=11016950;

X MEDLINE-20504483; PubMed=11016950;

XA NG W.V., Kennedy S.P., Mahairas G.G., Berquist B., Pan M.,

XA NG W.V., Kennedy S.P., Mahairas G.G., Berquist B., Pan M.,

RA Shakla H.D., Lasky S.R., Baliga N.S., Thorsson V., Sbrogna J.,

RA Swartzell S., Weir D., Hall J., Dahl T.A., Welti R., Goo Y.A.,

RA Leithauser B., Keller K., Cruz R., Danson M.J., Hough D.W.,

RA Maddocks D.G., Jablonski P.E., Krebs M.P., Angevine C.M., Dale H.,

RA Maddocks D.G., Jablonski P.E., Krebs M.P., Angevine C.M., Jung K.-H.,

RA Maddocks D.G., Jablonski P.E., Krebs M.P., Angevine C.M., Jung K.-H.,

RA Maddocks D.G., Jablonski P.E., Noniels C.J., Dennis P.P., Omer A.D.,

RA Maddocks D.G., Jablonski P.E., Noniels C.J., Dennis P.P., Omer A.D.,

RA Maddocks D.G., Jablonski P.E., Riley M., Hood L., DasSarma S.,

RT "Genome sequence of Halobacterium species NRC-1.",

"Genome sequence 
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16-OCT-2001
16-OCT-2001
28-FEB-2003
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between
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Halobacterium sp. (strain NRC-1 / ATCC 700922 / JCM 11081).
Archaea; Euryarchaeota; Halobacteria; Halobacteriales;
Halobacteriaceae; Halobacterium.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pfam; PF02179; BAG; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBUNIT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE SPECIFICITY: Expressed at high levels in chilled diapause eggs and to a lesser extent in chilled nondiapause eggs. etc. this pattern chilling at DEVELOPMENTAL STAGE: In diapause eggs, expressed after chilling at 5 degrees Celsius for 5-6 days, persists for 30 days and then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ligase (EC 6
OR VNG0881G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GO:0030544; F:Hsp70 prot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MISCELLANEOUS: 'Samui' means 'cold' in Japanese SIMILARITY: Contains 1 BAG domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INDUCTION: By cold.
MISCELLANEOUS: 'Samui'
                          \label{eq:continuity} $$ \{ deoxyribonucleotide \} (N+M) . $$ SIMILARITY: Belongs to the ATP-dependent
                                                              similarity).
CATALYTIC ACTIVITY: ATP + (deoxyribonucleotide) (N)
{deoxyribonucleotide (M) = AMP + diphosphate +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HALN1
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TaxID=64091;
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(Rel. 40, Last sequence update)
(Rel. 41, Last annotation update)
(EC 6.5.1.1) (Polydeoxyribonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Binds to HSP70.
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87.5%;
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GLN-RICH.
GLN/PRO-RICH.
LYS-RICH.
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                               DNA ligase family
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Best Local
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Bactlus subtilis.
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01-DEC-1992 (Rel. :
01-DEC-1992 (Rel. :
10-OCT-2003 (Rel. :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HAMAP; MF_00407; -; 1.
InterPro; IPR00977; DNA_ligase.
Pfam; PF01068; DNA_ligase; 1.
Pfam; PF04679; DNA_ligase_A_C; 1.
Pfam; PF04675; DNA_ligase_A_N; 1.
TIGREAMS; TIGR00574; dnl1; 1.
TROSITE; PS00697; DNA_LIGASE_A1; 1.
PROSITE; PS00697; DNA_LIGASE_A1; 1.
PROSITE; PS00133; DNA_LIGASE_A2; FALSE_NEG.
PROSITE; PS01060; DNA_LIGASE_A3; 1.
DNA_repair; DNA_replication; DNA_recombination; Cell division; Ligase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
Kunst F., Ogasawara N., Moszer I., Albertini A.M., Alloni G.,
Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,
Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,
Brouillet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M.,
Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,
Denizot F., Devine K.M., Dusterhoft A., Ehrlich S.D., Emmerson P.T.,
Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,
Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,
Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SECA
                                                                                                                                                                                                                       Soldo B., Lazarevic V., Mauel C., Karan "Sequence of the Bacillus subtilis 168 to 307 degree.";
                                                                                                                                                                                                                                                                                                                   subtilis to the Esche
Gene 98:101-105(1991)
                                                                                                                                                                                                                                                                                                                                  MEDILINE=91192600; PubMed=1901557;
Sadaile Y., Takamatsu H., Nakamura K., Yamane K.;
Sequencing reveals similarity of the wild-type div+ gene of subtilis to the Escherichia coli secA gene.";
                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=168 / Marburg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus
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BINDING 255 255 AM
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                                                                                                                                             MEDLINE=98044033; PubMed=9384377;
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                                                                                                                                                                                                           (JAN-1997) to the EMBL/GenBank/DDBJ databases
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Pred. No.
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RA Kobayashi Y., Koetter P., Kooningstein G., Krogh S., Kumano M.,

RA Kurita K., Lapidus A., Liu H., Masuda S., Lauber J., Lazarevic V.,

RA Lee S.M., Levine A., Liu H., Masuda S., Mauel C., Medique C.,

RA Medina N., Mellado R.P., Mizuno M., Moestl D., Nakai S., Noback M.,

RA Moone D., O'Reilly M., Ogawa K., Ogiwara A., Oudega B., Park S.H.,

Parro V., Pohl T.M., Portetelle B., Rorwollik S., Prescan E., Pujic P., Purnelle B., Rapoport G., Rey M., Reynolds S.,

Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

Rieger M., Rivolta C., Rocha E., Takana B., Schroeter R., Scoffone F.,

Sato T., Scanlan E., Schleich S., Schroeter R., Scoffone F.,

Sakiguchi J., Sekowska A., Seror S.J., Serror P., Shin B.S., Soldo B.,

Sorokin A., Tacconi E., Takagi T., Takahashi H., Takenaru K.,

Takeuchi M., Tamakoshi A., Tanaka T., Terpstra P., Tognoni A.,

A Sorokin A., Tamakoshi A., Tanaka T., Terpstra P., Tognoni A.,

Na Tosato V., Uchiyama S., Vandembol M., Vannier F., Vassarotti A.,

Vari A., Wambutt R., Wedler E., Wedler H., Weitzenegger T.,

"The complete genome sequence of the Gram-positive bacterium Bacillus gubtilis.",

"The complete genome sequence of the Gram-positive bacterium Bacillus
                                                                                                                                                     EMBL; D10279; BAA01122.1; -.
EMBL; U56901; AAC44957.1; -.
EMBL; U56901; AAC44957.1; -.
EMBL; X62035; CAA43977.1; -.
PIR; JQ0647; JQ0647.
PDB; 1M6N; 20-SEP-02.
PDB; 1M74; 20-SEP-02.
PDB; 1M74; 20-SEP-02.
InterPro; IPR001650; Helicase C.
InterPro; IPR001650; Helicase C.
InterPro; IPR00165; SecA.
Pfam; PF0271; helicase C; 1.
Pfam; PF02810; SEC-C; 1.
Pfam; PF01043; SecA. protein; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                              use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@sisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-91375427; PubMed-1832735;
Overhoff B., Klein M., Spies M., Freudl R.;
"Identification of a gene fragment which codes for the 364 amino-
terminal amino acid residues of a Sech homologue from Bacillus
subtilis: further evidence for the conservation of the protein export
apparatus in Gram-positive and Gram-negative bacteria.";
Mol. Gen. Genet. 228:417-423 (1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Guiseppi G.,
Hilbert H.,
      SEQUENCE
                                        Complete proteome; NP_BIND 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Involved in protein export. Interacts with the secy/secE subunits. SecA has a central role in coupling the hydrolysis of ATP to the transfer of pre-secretory periplasmic and outer membrane proteins across the membrane.

In SUBUNIT: Part of the prokaryotic protein translocation apparatus
                                                                                                 PROSITE;
                                                                                                                                     PRINTS; PR00906;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the European Bioinformatics Institute.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          similarity).
SUBCELLULAR LOCATION: CYTOPLASMIC SIDE OF MEMBRANE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CYTOPLASMIC.
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H., Holsappel (
                                                                                                 PS01312; SECA;
                                                                                                                 TIGR00963; secA; 1.
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                                                                                                                                   SecA_protein; 1.
6; SECA.
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                                    ATP-binding; Membrane; Translocation; Transport; 3D-structure.
107 ATP (DOMRNIANT--
  95530 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   secB,
ATP (POTENTIAL).
V -> I (IN REF. 4).
; 9AAC3630139F5EFF CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for
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POLY-GLU

PROSITE;

PS00674; AAA; 1.
PS00633; BROWODOMAIN\_1; FALSE\_NEG.

PS50014; BROMODOMAIN\_2;

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Best Local
                                                                                                                                                                                                                                                                                                               EMBL; Y07893; CAA69201.:
EMBL; Z73955; CAA97300...
EMBL; X81072; CAA56963.:
PIR; S64663; S64603.
GermOnline; 141582; -.
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10-OCT-2003 (Rel. 42)
TAT-binding homolog
YTA7 OR YGR270W.
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01-FEB-1995
                                                                                                                                                                                      SGD; S0003502; YTA7.
InterPro; IPR003593; AAA ATPase centr.
InterPro; IPR003595; AAA atPase centr.
InterPro; IPR003960; AAA sub.
InterPro; IPR001487; Bromodomain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Schnall R., Mannhaupt G., Stucka R., Tauer R., Ehnle S., Schwarzlose C., Vetter I., Feldmann H.; "Identification of a set of yeast genes coding for a novel family putative ATPases with high similarity to constituents of the 26S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   YEAST
                                                                                                                   SMART; SM00382; AAA; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                use by non-profit institutions as long as its content modified and this statement is not removed. Usage by ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -!- SIMILARITY: Contains 1 bromodomain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yeast 10:1141-1155(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         putative ATPases with protease complex.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=95274317; PubMed=7754704;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=S288c;
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Agostoni Carbone M.L.,
Vanoni M., Panzeri L.;
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PF00439; bromodomain; 1.
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homolog 7.
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  (See http://www.isb-sib.ch/announce/
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Nimura K., Yoshikawa H., Takahashi H.;
"Sequence analysis of the third dnaK homolog gene in Synechococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=97382457; PubMed=9240461; Oguchi K., Nimura K., Yoshikawa H.,
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15-DEC-1998 (Rel.
16-OCT-2001 (Rel.
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                       EMBL;
PIR; (
                                                                                                       use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                  Nimura K.,
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                                             EMBL; AB003519; BAA21679.1; -. EMBL; D29968; BAA06235.1; -.
                                                                                                                                                                                                                between
                                                                                                                                                                                      s SWISS-PROT entry is copyright. It is produced through a ween the Swiss Institute of Bioinformatics and the EMBL European Bioinformatics Institute. There are no restrict
                                                                                                                                                                                                                                                                      SUBCELLULAR LOCATION: Cytoplasmic (By similarity). SIMILARITY: Belongs to the dnaJ family. SIMILARITY: Contains 1 J domain.
                                                                                                                                                                                                                                                                                                                                                           FUNCTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCC7942."
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iophys. Res. Commun. 205:2016-2017(1994).
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K -> E (IN REF. 2).
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Pred. No. 1.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     POLY-LYS.
ATP (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POLY-ASN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POLY-ARG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    201:848-854(1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               236:461-466(1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31D1F6F87E62E04F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Takahashi H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               287 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                   MEDLINE=22957627; PubMed=14528314;
Duchaud E., Rusniok C., Frangeul L., Buchrieser C., Givaudan A.,
Taourit S., Bocs S., Boursaux-Eude C., Chandler M., Charles J.-F.,
Dassa E., Derose R., Derzelle S., Freyssinet G., Gaudriault S.,
Medigue C., Lanois A., Powell K., Siguier P., Vincent R., Wingate V.
Zouine M., Glaser P., Boemare N., Danchin A., Kunst F.;
"The genome sequence of the entomopathogenic bacterium Photorhabdus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRONITE: pronco-
                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its modulated and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00636; DNAJ 1; 1.

PROSITE; PS50076; DNAJ 2; 1.

Chapperone; DNA replication; Heat shock.

DOMAIN

4

73

J-DOMAIN.
                                                                                                                                                                                                                                                                    Photorhabdus luminescens (subsp. laumondii).
Bacteria; Proteobacteria; Gammaproteobacteria;
Enterobacteriaceae; Photorhabdus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-MAR-2004 (Rel.
15-MAR-2004 (Rel.
15-MAR-2004 (Rel.
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InterPro; IPR001623;
InterPro; IPR008971;
InterPro; IPR003095;
                                   PhotoList; plu4682; -.

HAMAP; MF 00012; -; 1.

PROSITE; PS00886; ILVD EDD 1; 1.

PROSITE; PS00887; ILVD EDD 2; 1.

Branched-chain amino acid biosynthesis; Lyase; Iron; Iron-sulfur;

4Fe-4S; Complete proteome.
                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN-TT01
                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=141679;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dihydroxy-acid dehydratase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q7MYJ5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ILVD OR PLU4682.
                                                                                                                   EMBL; BX571874; CAE17054.1; -.
                                                                                                                                                                                                                                                                                                                       luminescens.";
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LVD PHOLL
                           METAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                              PATHWAY: Valine and isoleucine biosynthesis; SIMILARITY: Belongs to the ilvD / edd family.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      287 AA; 31980 MW; 2927A269B2E6C546 CRC64;
 616
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             195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
  AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 43, Last sequence update)
43, Last annotation updat
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  65785 MW;
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                                                                                                                                                                                                                                                                                                2,3-dihydroxy-3-methylbutanoate
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 IRON-SULFUR (4FE-4S)
IRON-SULFUR (4FE-4S)
; 8150D713D04D4172 CR
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     CRC64;
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                (POTENTIAL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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Best Local S
Matches 6
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                                                                                                                                                                                                                                                                                   InterPro; IPR001650; Helicase C.
InterPro; IPR00130; SNF2 N.
Pfam; PF00271; helicase C; 1.
Pfam; PF002176; SNF2 N; 1.
SMART; SM00487; DEXDC; 1.
SMART; SM00487; DEXDC; 1.
SMART; SM00490; HELICC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JLT 10
L MCV1
NTP1 MCV1
Q98267;
Q98267;
                                                                                                                                                                                                                      NP_BIND
SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- FUNCTION: SERVES TWO ROLES IN TRANSCRIPTION; IT ACTS IN CONCERT WITH VIRAL TERMINATION FACTOR/CAPPING ENZYME TO CATALYZE RELEASE OF UUUUUNU-CONTAINING NASCENT RNA FROM THE ELONGATION COMPLEX, AND IT ACTS BY ITSELF AS A POLYMERASE ELONGATION FACTOR TO FACILITATE READTHROUGH OF INTRINSIC PAUSE SITES (BY SIMILARITY.)
-!- CATALYTIC ACTIVITY: NTP + H(2) 0 = NDP + phosphate.
-!- SIMILARITY: Belongs to the helicase family. NPH I subfamily.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
30-MAR-2004 (Rel. 43, Last annotation update)
Nucleoside triphosphatase I (EC 3.6.1.15) (Nucleoside triphosphatase I)
phosphohydrolase I) (NPH I) (MC100R).
                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Genome sequence of a human tumorigenic poxvirus: specific host response-evasion genes.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Science 273:813-816(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Moss B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=96325459;
Senkevich T.G., Bu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Molluscipoxvirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Molluscum contagiosum virus subtype 1
Viruses; dsDNA viruses, no RNA stage;
                                                                                                                                                                                                                                                                      NIAMOC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=10280;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; U60315; AAC55228.1; T30702; T30702. DEAD.
     598
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                                                                                              6,
                                                                                                                       Similarity
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EDGRVYDAD 606
                                                EDGQVMDVD 9
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394
                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PubMed=8670425;
ugert J.J., Sisler J.R., Koonin E.V.,
                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                            72102 MW;
                                                                                                                  70.2%;
66.7%;
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                                                                                                                  Score 33;
Pred. No.
                                                                                                                                                                                                                                   HELICASE C.
ATP (BY SIMILARITY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 33; DB 1; Length 616;
Pred. No. 1.2e+02;
4; Mismatches 1; Indels
                                                                                                                                                                                                                 DEXH BOX
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                                                                                                                                                                                          B786EFBA17E12F56 CRC64;
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Poxviridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (See http://www.isb-sib.ch/announce/
                                                                                                                                         DB 1;
                                                                                         .2e+02;
ies 2;
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                                                                                      Gaps
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RESULT 12
PMT1 CANAL
ID PMT1 CANAL
ID TATT
AC 074189
DT 15-JUL
DT 15-JUL
DT 10-OCT
DE DOlich
DE (EC 2.
GN PMT1.
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                                                                                                                                                                                                                                                                                                                      RESULT 11
GYRA_SYNY3
                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR005743; DNA_gyrA.
InterPro; IPR006691; DNA_gyraseA C.
InterPro; IPR002205; DNA_topoisoIV.
Pfam; PF03989; DNA_gyraseA_C; 6.
Pfam; PF00521; DNA_topoisoIV; 1.
ProDom; PD000742; DNA_topoisoIV; 2.
SMART; SM00434; TOP4c; 1.
                                           PMT1 CANAL
074189;
15-JUL-1999
15-JUL-1999
10-CCT-2003
             \label{local_phosphate} Dolichyl-phosphate-mannose--protein \ \mbox{mannosyltransferase} \\ (EC\ 2.4.1.109).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sugiura M., Tabata S.;
"Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. I. Sequence features in the 1 Mb region from map positions 64% to 92% of the genome.";
DNA Res. 2:153-166(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See lor send an email to license@isb-sib.ch).
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Q55738;
                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                       Isomerase;
ACT_SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; D64002; BAA10380.1; -. PIR; S76534; S76534.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=96127529; PubMed=8590279; Kaneko T., Tanaka A., Sato S., Ko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synechocystis sp. (strain PCC 6803).
Bacteria; Cyanobacteria; Chroococcales; Synechocystis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
DNA gyrase subunit A (EC 5.99.1.3).
                                                                                                                                                                                                                                                                                                                                                                   IIGRFAMs; TIGR01063; gyrA; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HSSP; P09097; 1AB4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA rings, including catenanes and knotted rings.
CATALYTIC ACTIVITY: AIP-dependent breakage, passage and rejoining of double-stranded DNA.
SUBUNIT: Made up of two chains. The A chain is responsible for DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FUNCTION: DNA gyrase negatively supercoils closed circular double-
stranded DNA in an ATP-dependent manner and also catalyzes the
interconversion of other topological isomers of double-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           breakage and rejoining; the B chain catalyzes ATP enzyme forms an A2B2 tetramer.
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5; Conserv
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                                                                                                                                                                                                                                                                                                                 Topoisomerase; DNA-binding; Complete proteome.
122 122 DNA CLEAVAGE (BY SIMILARITY).
860 AA; 95073 MW; 8CE4E91C4CE874C5 CRC64;
                                           (Rel. 38, Created)
(Rel. 38, Last sequence update)
(Rel. 42, Last annotation updat
                                                                                                                                                                                                                                                       Conservative
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RESULT 13
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ID RPOB
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CARBOHYD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=98361950; PubMed=9694829;
Timpel C., Strahl-Bolsinger S., Ziegelbauer K., Ernst
"Multiple functions of Furtlp-mediated protein O-mannos
fungal pathogen Candida albicans.";
J. Biol. Chem. 273:20837-20846(1988).
-i- FUNCTION: TRANSFERS MANNOSE FROM DOL-P-MANNOSE TO
RESIDUES ON PROTEINS.
-i- CATALYTIC ACTIVITY: Dolichyl phosphate D-mannose +
dolichyl phosphate + O-D-mannosyl-protein.
-i- PATHWAY: Glycosylation.
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  Q9KWŪ7;
28-FEB-2003 (Rel.
                                                                                                                                                              SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                         Endoplasmic
TRANSMEM
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InterPro; IPR003608; MIR.
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7; Conserv
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77.8%;
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MIR 2.
MIR 3.
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                                                                                                                                Score 33;
Pred. No.
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                                                                                                                                                                                                                                                             POTENTIAL
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POTENTIAL.
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liated protein O-mannosylation
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RESULT 14
CH10 BORDE
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DT 15-M2
DE 10 kG
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Best Local
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InterPro; IPR007644; RNA pol Rpb2 1.
InterPro; IPR007642; RNA pol Rpb2 2.
InterPro; IPR007645; RNA pol Rpb2 3.
InterPro; IPR007645; RNA pol Rpb2 3.
InterPro; IPR007120; RNA pol Rpb2 7.
InterPro; IPR007120; RNA pol Rpb2 7.
IfterPro; IPR007120; RNA pol Rpb2 7.
IfterPro; IRV007641; RNA pol Rpb2 7.
IfterPro; IRV007641; RNA pol Rpb2 7.
IfterPro; RNA pol Rpb2 3; 1.
Ifter; PF04561; RNA pol Rpb2 3; 1.
Ifter; PF04560; RNA pol Rpb2 7; 1.
Ifter; PF04560; RNA pol Rpb2 7; 1.
INTER; PS04560; RNA POL BETA; 1.
                                           D BORPE
CH10 BORPE
P48271;
01-FEB-1996
01-FEB-1996
15-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
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10-OCT-2003 (Rel. 42, Last annotation update)
DNA-directed RNA polymerase beta chain (EC 2.
beta chain) (RNA polymerase beta subunit).
             01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
15-MAR-2004 (Rel. 43, Last annotation update)
10 kDa chaperonin (Protein Cpn10) (groES protein)
10 kDa chaperonin (Protein Cpn10) (groES protein)
GROS OR GROES OR CPN10 OR BP3496 OR BB0963 OR BPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; Y19223; CAB65465.2; -. PDB; 1HQM; 07-FEB-01.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A., AND X-RAY CRYSTALLOGRAPHY MEDLINE=99428144; PubMed=10499798;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=271;
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                                                                                                                                                                                                                                                                                                                                                    Transferase; Transcription; DNA-directed RNA polymerase;
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Bordetella

Bordetella bronchiseptica (Alcaligenes bronchisepticus),

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N., Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L., Cerdeno-Tarraga A.M., Temple L., James K., Harris B., Quail M.A., Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I., Chillingworth T., Collins M., Cronin A., Davis P., Doggett J., Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K., Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C., Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K., Unwin L., Whitehead S., Barrell B.G., Maskell D.J., "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica.";
Nat. Genet. 35:32-40(2003).
                                                                                                                                                        Prodom; PD000566; Chaprnin Cpn10; 1.
PROSITE; PS00681; CHAPERONINS_CPN10; 1.
                                                                                                                                                                                               HAMAP; MF_00580; -; 1.
InterPro; IPR001476; Cpn10.
Pfam; PF00166; cpn10; 1.
PRINTS; PR00297; CHAPERONIN10.
                                                                                                                                                                                                                                                                                                 EMBL; U12277, AAA74966.1; ---
EMBL; BX640421; CAB33757.1; --
EMBL; BX640439; CAB31462.1; --
EMBL; BX640425; CAE40278.1; --
                                                                                                                                               Chaperone;
                                                                                                                                                                                                                                                               PIR; 140330; 140330.
HSSP; P05380; 1AON.
                                                                                                                                                                                                                                                                                                                                                                                entities requires a license agreement (Sor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the ATPase activity of the latter.
-!- SUBUNIT: Heptamer of 7 subunits arranged in a ring
                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN=Tohama I /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPECIES-B.pertussis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gene 158:151-152(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -!- FUNCTION: Binds to Cpn60 in the presence of Mg-ATP and suppresses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=22827954; PubMed=12910271;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SPECIES=B.pertussis; STRAIN=Tohama MEDLINE=95309719; PubMed=7789805;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Bordetella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (groESL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fernandez R.C., Weiss A.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=520,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBCELLULÂR LOCATION: Cytoplasmic (By similarity). SIMILARITY: Belongs to the gross chaperonin family.
50
                                                               5
                                                                                Similarity
                               EDGQVMDVD 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and sequencing of homolog.";
                                                                                                                          Complete proteome. 95 AA; 10272 NW; 210A938AF6780D38 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCC BAA-587;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    parapertussis.
                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    518, 519;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           is, B.bronchiseptica, and B.parapertussis;
ATCC BAA-589 / NCTC 13251, RB50 / ATCC BAA-588,
                                                                             68.1%;
55.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the Bordetella pertussis cpn10/cpn60
                                                                              Score 32;
Pred. No.
                                                               Mismatches
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Job time :

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2004, 10:37:52

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RESULT 15 RL21\_METMA

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28-FEB-2003 (R
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50% ribosomal
                                                                                                                       Ribosomal protein; SEQUENCE 97 AA;
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InterPro; IPR001147; Ribosomal L21e.
InterPro; IPR008991; Transl SH3 like.
Pfam; PF01157; Ribosomal L21e; 1.
                                                                                                                                                                                                                                                                           use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                     Fritz H.-J., Gottschalk G.;
"The genome of Methanosarcina mazei: evidence for lateral gene transfer between Bacteria and Archaea.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Depenmeier U., Johann A., Hartsch T., Merkl R., Schmitz R.A., Martinez-Arias R., Henne A., Wiezer A., Baeumer S., Jacobi C., Barueggemann H., Lienard T., Christmann A., Boemecke M., Steckel S Bhattacharyya A., Lykidis A., Overbeek R., Klenk H.-P., Gunsalus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN-GOel / Gol / ATCC BAA-199 / DSM 3647 /
MEDLINE-22120827; PubMed=12125824; Merk! !
                                                                                                                                                                                                                                                                   or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                         between the Swiss Institute of Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RPL21E OR MM2536.
                                                                                                                                                     PROSITE; PS01171; RIBOSOMAL_L21E; FALSE_NEG
                                                                                                                                                                                                                                    EMBL; AE013498; AAM32232.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Methanosarcina mazei (Methanosarcina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Archaea; Euryarchaeota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RL21_METMA
                                                                                                                                                                                                                                                                                                                                                                                       Mol. Microbiol. Biotechnol. 4:453-461(2002).
SIMILARITY: Belongs to the L21E family of ribosomal proteins.
ß
                                                           Similarity 5; Conserv
EDGQMVHID
                             EDGQVMDVD
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(Rel. 41, Last sequence update)
(Rel. 41, Last annotation updat
                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inaceae; Methanosarcina.
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43
                             ø
                                                                                                                                      Complete proteome
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55.6%;
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                                                                                                                       MW;
                                                       Pred. No. 28; 3; Mismatches
                                                                                      Score 32;
                                                                                                                       28F4EEFC00613E5B CRC64;
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SPTREMBL 25:*

1: sp_archea:*
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6: sp_mammal:*
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8: sp_organelle:*
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10: sp_plant:*
11: sp_virus:*
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13: sp_vertebrate:*
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47
1 EDGQVMDVD 9
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Gapop 10.0 , Gapext 0.5
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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## ALIGNMENTS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C., Shinose M., Takahashi Y., Horikawa H., Nakazawa H., Osonoe T. Kikuchi H., Shiba T., Sakaki Y., Hattori M., "Genome sequence of an industrial microorganism Streptomyces avermitilis: deducing the ability of producing secondary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Streptomyces avermitilis.

Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
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MEDLINE=21477403; PubMed=11572948;
Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahash
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01-JUN-2003
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01-OCT-2003 (TremBLrel.
01-OCT-2003 (TremBLrel.
OSJNBb0086Gl3.4 protein
                                                                                                                                                                                                                                                                                                                                                                                               Complete proteome. SEQUENCE 249 AA;
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STRAIN=MA-4680
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                                                                                                                                                                                                                                                                                                         Similarity 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                               27870 MW;
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87.5%;
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(OSJNBa0088K19.15 protein).
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riptional regulator.
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Pred. No. 33;
1; Mismatches
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Pred. No. 15;
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                                                                                                                                                                                                                                                                                                                                                                                                 437A662812438B79 CRC64;
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33;
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                                                                                                                                                                                                                                                                                                                                                      Length 249;
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RESULT 4
Q9ZRD1
ID Q9ZRD
ID 01-M
DT 01-M
DT 01-J
DE NIGO
OC Euka
OC Euka
OC Euka
CC 1ami
OX NCBI
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RP SEQU
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DR HSSP
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DR HSSP
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DR Pfam
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Q8SD42
ID Q8SD
AC Q8SD
DT 01-J
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DT PHIR
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Fu G., Wang S.Y., Ren S.X., Lv G., Lin W., Gu W.Q., Zhu G.F., Tu Y.F., Fu G., Wang S.Y., Ren S.X., Lv G., Lin W., Gu W.Q., Zhu G.F., Tu Y.F., Jia J., Yin H.F., Zhang Y., Cai Z., Chen J., Kang H., Chen X.Y., Shao Y., Sun Y., Hu Q.P., Zhang X.L., Zhang W., Wang L.J., Ding C.W., Shao Y., Sun Y., Lu Chen S.T., Ni L., Zhu F.H., Han B., Feng Q., Chen L., Fan D.L., Weng Q.J., Zhao Q., Hu X., Liu Y.L., Mu J., Yu Z., Chen L., Fan D.L., Weng Q.J., Zhang L., Lu Y.Q., Yu S.L., Liu X.H., Lu T.T., Zhang Y.J., Liu X.H., Liu X.H., Liu Y.H., Ying K., Zhou B., Chen Z.H., Hao P., Zhang L., Wu M., Zhang R.Q., Guan J.P., Hong G.F.;

Zhang R.Q., Caba1026.1;

ZHELL, AL606626; CAB03213.1;

ZHELL, AL606626; CAB03213.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OSJNBB0086G13.4 OR OSJNBA008BK19.15.
Oryza sativa (Rice).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Enrhartoideae; Oryzeae; Oryza.
              Q8SD42;
01-JUN-2002
01-JUN-2002
01-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nicotiana tabacum (Common tobacco).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; aster
lamiids; Solanales; Solanaceae; Nicotiana.
                                                                                                                                                                                                                                                                                                           Biermann B.J., Price J.R., Crowell D.N., Randa
"A collection of cDNAs encoding isoprenylated
submitted (JUL-1996) to the EMBL/GenBank/DDBJ
EMBL, U64925; AAD09518.1; -.
HSSP; P02649; ILE4.
InterPro; IPR066793; AIG1.
Pfam; PF04548; AIG1; 1.
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NON_TER
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                                                                             Q8SD42
                                                                                                                                                                                                                                                                                 SEQUENCE
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                (TrEMBLrel. 21, (TrEMBLrel. 21, (TrEMBLrel. 21,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                       Conservative
                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                       Price J.R., Crowell D.N., Randall
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66.7%;
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75.0%;
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Last
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Pred. No.
              Last sequence update)
Last annotation update)
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72;
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databases.
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Q9N595;
01-OCT-2000
01-OCT-2001
01-OCT-2003
                                                                                                      Submitted (SEP-2001) to the E
EMBL; AC006708; AAF60430.2; -
WOXMDED; Y110A7A.16; CE28103.
InterPro; IPR008849; IKI3.
Pfam; PF04762; IKI3; 1.
                                                                                                                                                                                                                                       "The
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
                                                                                   Hypothetical SEQUENCE 1:
                                                                                                                                                                                       STRAIN=Bristol N2;
                                                                                                                                                                                                                             Submitted
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Ozersky P., Wohldmann P.,
                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
                                                                                                                                                                               Waterston
                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Hypothetical protein. Y110A7A.16.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=21914557; PubMed=11916376;
Mesyanzhinov V.V., Robben J., Grymonprez B., Kostyuchenko V.A.,
Bourkaltseva M.V., Sykilinda N.N., Krylov V.N., Volckaert G.;
"The genome of bacteriophage phiKZ of Pseudomonas aeruginosa.";
Mol. Biol. 317:1-19(2002).
                                                                                                                                                                 "Direct Submission.";
                                                                                                                                                                                                                                                                                                                                             MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                 investigating biology. The C
Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                       "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
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[1]
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                                               Local
                                                                                                                                                                                                                       sky P., Wohldmann P., Carter T.;
sequence of C. elegans cosmid Y110A7A.";
itted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
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                                    Similarity 6; Conserv
EDGQVMDVD
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                                                                                  il protein.
1250 AA;
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                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               78.7%; 5...
100.0%; Pr
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66.7%;
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Caenorhabditis.
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                                 Score 37; DB 5; Louis Pred. No. 2.9e+02; 3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last annotation update)
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                                                                               AFF1EDA831727DED CRC64;
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                                                       Length 1250;
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                                                                                                                                                                                                                                                                                                        Consortium.";
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ID UQ4
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Matches 5
                                                                                                                                                                                                                              SEQUENCE FROM N.1
Brover V., Troukl
Feldmann K.;
                        "Full-Length cDNA from Arabidopsis Submitted (WAR-2002) to the EMBL/Ge EMBL; AV084697; AAM61258.1; - IPR008938; ARM. InterPro; IPR003613; Znf modRING. Pfam; PF04564; U-box; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                  Haas B.J., Volfovsky N., Town C.D., Troukhan Feldmann K.A., Flavell R.B., White O., Salzbe "Full-length messenger RNA sequences greatly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-OCT-2002 (TremBirel.
01-OCT-2002 (TremBirel.
01-OCT-2003 (TremBirel.
Hypothetical protein.
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Q8LFR0;
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01-JUN-2003
01-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                              annotation.";
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Lactobacillus plantarum.

Lactobacillales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM
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Kuipers O.P., Leer R., Tarchini R., Peters S.A., S.
Fiers M.W.E.J., Stiekema W., Klein Lankhorst R.M.,
Hoffer S.M., Nierop Groot M.N., Kerkhoven R., De V.
De Vos W.M., Siezen R.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Complete genome sequence of Lactobacillus plantarum WCFS1."; Proc. Natl. Acad. Sci. U.S.A. 100:1990-1995(2003).
EMBL, AL935258; CAD64640.1; -.
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STRAIN-NCIMB 8826 / WCFS1;
MEDLINE-22480296; PubMed-12566566;
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Pfam; PF00991; ParA; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           268 AA;
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Pred. No. 86;
3; Mismatches
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                                                                                                                                                                                                                                                      Lu Y.-P.,
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Sandbrink H.M.,
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01-OCT-2000 (TrEMBLrel. 1
01-OCT-2003 (TrEMBLrel. 2
Hypothetical protein.
T16K5.160.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Complete genomic sequence of Corynebacterish Submitted (MAY-2002) to the EMBL/GenBank/DD EMBL, AP005279; BAB99026 1; Go; GO:0005663; C:DNA replication factor C GO; GO:0005524; F:AIP binding; IEA. GO; GO:0004386; F:Belicase activity; IEA. GO; GO:0004386; P:DNA binding; IEA. GO; GO:0004386; P:DNA replication; IEA.
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STRAIN=ATCC 13032
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Uncharacterized ATPase related to the helicase subunit of the holliday
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  Submitted [2]
                                                                                                                                                                                 Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embry.
Spermatophyta; Magnoliophyta; eudicotyledons;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Helicase; Complete proteome. SEQUENCE 459 AA; 49478 MW;
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Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Corynebacteriaceae; Corynebacterium.
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                          SEQUENCE FROM N.A.
Rieger M., Gabel C., M
Mewes H.W., Lemcke K.,
Submitted (NOV-1999) to
                                                                                                                                                                                                                                                                                                                                                                          Q9M2X7;
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InterPro; IPR000862; RFCdomain.
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les 6; Conserv
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75.0%;
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66.7%;
                          Mueller-Auer S., Schaefer M., Zipp M.,
., Mayer K.F.X., Quetier F., Salanoubat M.;
to the EMBL/GenBank/DDBJ databases.
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Pred. No. 1.5e+02;
2; Mismatches 0
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Submitted (JAN-2000) to the EMBL/GenBank/DDBJ
EMBL; AL132955; CAB66919.1; -.
PIR; T46047; T46047.
InterPro; IPR008938; ARM.
InterPro; IPR008938; ARM.
InterPro; IPR00813; Znf.
Most Pfam; PF04564; U-box; 1.
SMART; SM00504; Ubox; 1.
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Q7XJ14;
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InterPro; IPR008941; TPR-like.
Pfam; PF01399; PCI; 1.
SMART; SM00088; PINT; 1.
SEQUENCE 487 AA; 54980 MW;
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NCBI_TaxID=4530;
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Yanagawa Y., Hasezawa S.,
Tanaka K., Komamine A., H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OS21D7.
                      Oryza sativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; E
Spermatophyta; Magnoliophyta; Liliopsida;
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    Spermatophyta;
Ehrhartoideae;
                                                                                     Putative 26S proteasome P0478E02.12.
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Pred. No. 1.6e+02;
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Pred. No. 1.6e+02
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                             Embryophyta; Tracheophyta;
a; Poales; Poaceae;
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RESULT 14
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Best Local S
Matches 7
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  P91775;
P91775;
01-MAY-1997
01-MAY-1997
01-OCT-2003
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GO; GO:0008233; F:peptidase activity; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
InterPro; IPR003137; PA.
InterPro; IPR003137; PA.
InterPro; IPR003137; PA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q8LQG1;
Q8LQG1;
01-OCT-2002
01-OCT-2002
01-OCT-2003
                                                                                                                                                                                 Receptor.
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                        Oryza sativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
                                                                                                                                                                                                                                                                                                           EMBL; AP003433; BAB92664.1;
                                                                                                                                                                                                                                                                                                                      Submitted (MAR-2001) to the
                                                                                                                                                                                                                                                                                                                                                    STRAIN=cv. Nipponbare;
Sasaki T., Matsumoto T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vacuolar sorting receptor-like protein. P0004D12.8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases EMBL; AB109206; BAC79193.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=cv. Nipponbare;
Oliveira A.C., Matros L.T., Carvalho F.F.,
Malone G., Dellagostin O.;
                                                                                                                                                                                                    SMART; SM00730;
                                                                                                                                                                                                                 Pfam; PF04258;
                                                                                                                                                                                                                                                                                                                                  clone:P0004D12.
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                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=39947;
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(TrEMBLrel. 22, Last sequence up
(TrEMBLrel. 25, Last annotation
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77.8%;
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77.8%;
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Pred. No. 2e+0
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Last annotation update)
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Pred. No.
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Mismatches 2
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Best Local S
  Query Match
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                                              Nature 403:665-668 (2000).
EMBL; AL139075; CAB75104.1; -.
PIR; E81391; E81391.
InterPro; IPR000595; cNMP binding.
Pfam; PF00027; CNMP binding; I.
SMART; SM00100; CNMP; I.
PROSITE; PS50042; CNMP BINDING 3; 1.
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SIGNAL
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PROSITE;
                                                                                                                                                                            STRAIN=NCTC 11168;

MEDLINE=20150912; PubMed=10688204;

Parkhill J., Wren B.W., Mungall K., Ketley J.M., Churcher C.,

Parkhill J., Wren B.W., Davies R.M., Feltwell T., Holroyd S.

Basham D., Chillingworth T., Davies R.M., Feltwell T., Holroyd S.

Jagels K., Karlyshev A.V., Moule S., Pallen M.J., Penn C.W.,

Quail M.A., Rajandream M.A., Rutherford K.M., van Vliet A.H.M.,
                                                                                                                                                     Quail M.A., Rajandream M.A., Rutherford K.M., van Vliet A.H.M., Whitehead S., Barrell B.G.; "The genome sequence of the food-borne pathogen Campylobacter jejuni
                                                                                                                                                                                                                                                                                                                                                                    01-OCT-2000
01-JUN-2003
                                      Complete proteome
                                                                                                                                        reveals hypervariable sequences.";
                                                                                                                                                                                                                                                                                                  Campylobacteraceae;
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Bacteria; Proteobacteria;
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01-OCT-2000
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GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0006879; P:iron ion homeostasis; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Liang Z., Sottrup-Jensen L., Aspan A., Hall M., S. "Pacifastin, a novel 155-kDa heterodimeric protein containing a unique transferrin chain.";

Proc. Natl. Acad. Sci. U.S.A. 94:6682-6687(1997).

EMBL; U81824; AAC64660.1; -.

HSSP, P56410; 1AOV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pacifastin heavy chain precursor.

Pacifastacus leniusculus (Signal crayfish).

Pacifastacus leniusculus (Signal crayfish).

Eukaryota, Metazoa; Arthropoda; Crustacea; Malacostraca;

Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Astacidea;

Astacoidea; Astacidae; Pacifastacus.
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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MEDLINE=97338078; PubMed=9192625;
Liang Z., Sottrup-Jensen L., Aspa
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Pfam; PF00405; transferrin;
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: SM00096; TRANSFERRIN_2; 1
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Score
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Pred. No. 3
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W; 5EF1706133350E99 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     POTENTIAL.
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                          765B32B63810A030 CRC64;
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Oy 1 EDGQVMDVD 9
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Minimum DB
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1: geneseqp1980s:*
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47
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Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		orte orte			SUMMARIES	
No.	Score	Match L	Length I	₽B	ID	Description
	47	100.0	9	ωį	AAB25907	Aab25907 IgE C-ens
2	47	00.	φ	w	2	7 Immunoql
ω	47	00.	9	4	AAB51023	
4	47	00.	9	4	AAU16632	2 Peptide
U	47	•	9	Ŋ	ABJ00217	7
ı on	47	100.0	9	7	ADE10893	Adel0893 Chimeric
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25	47	100.0	20	w	AAB25971	P1

Dyson M, F: Randall R,

Friede M,

Greenwood J, Hewitt E, Lamont A, Mason S WG, Van Mechelen MP, Vinals Y De BassolsC;

WPI; 2000-572073/53.

Claim 2; Page 5; 129pp; English.

Peptides useful for treating, preventing diseases, comprising an isolated surface domain from immunoglobulin E.

and ameliorating allergic exposed group of a specific

AC AAB25907; XX 05-JAN-2001	RESULT 1 AAB25907 ID AAB25907		45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
907;			47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
	standard;		•	100.0	•	•		100.0		•	•	100.0	•	•	•	٠	100.0		100.0	•	•	100.0
(figure to part year)	peptide		236	128	106	98	22	22	22	22	21	21	21	21	21	21	20	20	20	20	20	20
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	9 AA.	ALIGNMENTS	ABG74780	ABG74778	AAR85587	AAR85588	ABJ00315	ABJ00543	AAU16645	AAB25920	ABJ00317	ABJ00359	AAU16647	AAU16697	AAB25922	AAB25972	ABJ00358	ABJ00316	ABJ00544	AAU16696	AAU16646	AAB23440
					Aar85587 Fc(epsilo	Aar85588 Fc	Abi00315 Human IqE	Ab 100543 Hu			Abi00317 Human IqE		Ðď	697	P	P1	Abi00358 Human IgE	프	픋	Pe		Aab23440 Human

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25-FEB-1999
29-MAR-1999
07-MAY-1999
07-MAY-1999
07-AUG-1999
07-AUG-1999
07-SEP-1999
07-SEP-1999
07-SEP-1999
29-OCT-1999
                                                                                                        (SMIK )
                                                                                                                                                                                                                                                                                                                 Epitope; mimotope; human; immunoglobulin E; IgE; C-epsilon-2 domain; allergic disease; immunoprophylaxis; immunotherapy; antiallergic; immunosuppressive; vaccine; histamine release inhibitor; immunogen;
                                                                                                                                                                                                                                   22-FEB-2000; 2000WO-EP001455
                                                                                                                                                                                                                                                       31-AUG-2000.
                                                                                                                                                                                                                                                                         WO200050460-A1.
                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                           allergy; atopy.
                                                                                                                                                                                                                                                                                                                                                      IgE C-epsilon-2 domain surface exposed epitope peptide P1
                                                                                                       SMITHKLINE BEECHAM BIOLOGICALS. PEPTIDE THERAPEUTICS LTD.
                                                                                                                                 99GB-00018603.
99GB-00021046.
99GB-00021047.
99GB-00025619.
99GB-00027698.
                                                                                                                                                                               99GB-00010538.
99GB-00018594.
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99GB-00010537.
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RESULT 2
AAB20867
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Best Local
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25-FEB-1999;
25-FEB-1999;
13-AUG-1999;
                                                                                      Immunogens and vaccine comprising the immunogen useful for preventing treating infectious diseases e.g. malaria and chronic disease e.g. cancer, comprises peptide and carrier from protein D of influenzae.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protozoacide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   prostate cancer; Haemophilus influenzae; vaccine; infectious disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immunoglobulin E; IgE; immunogenic; immunogen; Protein D; carrier;
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                                                                                                                                                                                                                                             SMITHKLINE BEECHAM BIOLOGICALS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                               2000WO-EP001457.
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99GB-00004412.
99GB-00019260.
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                                                                                                                                                                                                                                                                                                                                       99GB-00004405.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antiallergic; nootropic; neuroprotective;
mer's disease; allergy.
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Pred. No. 1.4e+06;
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Claim 9; Page 37; 53pp; English

The present invention

present invention describes an immunogen (I) and a carrier (Ib) derived from protein D o

I) comprising a of Haemophilus

peptide influenzae

Matches

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100.0%;

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Matches
               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or its fragment. Also described are: (1) a vaccine comprising (I), and a excipient; (2) preparation of (I), comprising conjugating a peptide to protein D or its fragment; and (3) preparation of a vaccine of (1), comprising formulating (I) with an excipient. (I) has cytostatic, comprising formulating (I) with an excipient. (I) has cytostatic, antiallergic, nootropic, neuroprotective and protozoacide activities. (I and the vaccine are useful for the manufacture of a medicament for preventing and treating infectious diseases such as malaria or chronic disease such as cancer, Alzheimer's disease or allergy in a patient. Unlike prior art immunogens, (I) induces high levels of antipeptide immune responses while inducing a moderate humoral response against the
                                                                                             The present invention relates to a composition comprising allergy peptides linked by an inert carrier. The allergy peptides are derived from Immunoglobulin E (ISB) or ISE receptor. The present peptide is one such peptide from ISE. The composition is useful as a vaccine or for manufacturing a medicament for the prophylaxis or treatment of allergy. In particular, for boosting an anti-allergy immune response in an individual susceptible to an allergic response
                                                                                                                                                                                                                                                           New vaccine comprising allergy peptides linked by an inert carrier, useful for boosting an anti-allergy immune response in an individual susceptible to an allergic response.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    carrier. The present sequence represents a specifically claimed immunoglobulin E (IgE) epitope immunogenic peptide sequence, whused in an immunogen of the present invention
                                                                                                                                                                                                                              Claim 5; Page 20; 26pp; English.
                                                                                                                                                                                                                                                                                                                                 WPI; 2001-091150/10.
                                                                                                                                                                                                                                                                                                                                                                    Prieels J;
                                                                                                                                                                                                                                                                                                                                                                                                                                    08-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vaccine; immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IgE peptide #1.
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                                                                Sequence
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Pred. No. 1.4e+06;
Score 47; DB 4;
Pred. No. 1.4e+06;
Nismatches 0;
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AAU16632
                                                                                                                                                                The present invention relates to linkage methodology for use in the conjugation of compounds (e.g. peptides) to carrier vehicles (e.g. macromolecules, polymers, dendrimers, proteins) to produce biological and immunological constructs. The invention provides a method for linking an epitope (e.g. a peptide) to a carrier (e.g. a protein) for use in a pharmaceutical composition or a vaccine. The invention describes peptides derived from or mimotopes of the Cepsilon2 (Cepsilon3 or Cepsilon4 cregions of human immunoglobulin E (IgE) which are used to produce conjugated compounds. The compounds or compositions of the invention are useful in the manufacture of a medicament for the treatment of IgE mediated diseases. The invention allows for controlled conjugation of a peptide epitope (antigen) to a protein so as to form an immunogenic conjugate which may be able to raise a protective antibody response in an iffcom or mimotopes of the Cepsilon2/Cepsilon3/Cepsilon4 region of human from the Cepsilon3/Cepsilon4 region of human
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                                                                            Query Match
Best Local
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                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                             A linkage comprising an immunogenic conjugate useful treatment of \mbox{mediated diseases}.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-DEC-1999; 99GB-00030233
22-FEB-2000; 2000GB-00004096;
22-AUG-2000; 2000GB-00020707
22-AUG-2000; 2000GB-00020708
                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 21; 48pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; linkage technology; conjugated compound; carrier vehicle; epitope; Cepsilon2; Cepsilon3; Cepsilon4; immunoglobulin E; IgE mediated disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Peptide P1 derived from Cepsilon2 region of human IgE
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SMITHKLINE BEECHAM BIOLOGICALS.
                                                                                                                        9 AA;
EDGQVMDVD
                            EDGQVMDVD 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Johnson T;
                                                        100.0%; Score 47; DB 4; ilarity 100.0%; Pred. No. 1.4e+06; Conservative 0; Mismatches 0;
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RESULT 5

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RESULT 6
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                    hepatotropic; virucide; antiinflammatory; chronic hepatitis; vaccine; recombinant hepatitis B core chimeric protein; HBc chimeric protein; hepatitis B infection; T-cel stimulator; B-cell epitope.
                                         21-FEB-2003; 2003US-00372076.
                                                                                                                       23-OCT-2003
                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chimeric hepatitis B virus related B-cell epitope seqid 127.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADE10893;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to conjugates suitable for use in vaccine where the conjugate comprises a disulphide bridge cyclised peptide and immunogenic carrier. The vaccines can be used in the treatment of allergies. The present sequence is a peptide immunogen derived from hum immunoglobulin E (IGE) suitable to be cyclised and used in the inventic
                                                                                                                                                                                            US2003198645-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADE10893 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conjugate for use in vaccine for treatment of allergy, condisulfide bridge cyclized peptide and immunogenic carrier
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABJ00217 standard; peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Immunogen; human; IgE; immunoglobulin E; allergy; thio-ether linkage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-SEP-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human IgE immunogenic peptide SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABJ00217;
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Pred. No. 1.4
D; Mismatches
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ptide and an
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           25-FEB-1999;
29-MAR 1999;
07-MAY-1999;
07-MAY-1999;
07-AUG-1999;
07-AUG-1999;
07-SEP-1999;
07-SEP-1999;
07-SEP-1999;
29-OCT-1999;
23-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes a method of treating chronic hepatitis comprising administering to a patient a T cell-stimulating amount of a vaccine comprising immunogenic particles dissolved or dispersed in a diluent, where the immunogenic particles consists of recombinant hepatitis B core
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Treating chronic hepatitis B infection by administering a T cell-stimulating vaccine containing immunogenic particles having recombinant carboxy-terminal truncated hepatitis B core (HBc) chimeric protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HBc) chimeric protein molecules, and maintaining the patient to induce 1 cells activated against HBc. The methods and compositions of the present invention are useful for treating chromic hepatitis B infection. This is the amino acid sequence of a chimeric hepatitis B virus related B-cell epitope useful for expression within the HBV chimer at the N-terminus, within the immunoigenic loop and/or at the C-terminus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-FEB-2002; 2002US-00080299.
21-FEB-2002; 2002US-00082014.
                                                                                                                                                                                                                                                       immunosuppressive;
allergy; atopy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 127; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-852775/79
                                                                                                                                                                               31-AUG-2000
                                                                                                                                                                                                                                                                     Epitope; mimotope; human; immunoglobulin E; IgE; C-epsilon-2 domain; allergic disease; immunoprophylaxis; immunotherapy; antiallergic; immunosuppressive; vaccine; histamine release inhibitor; immunogen;
                                                                                                                                                                                                                                                                                                                      P1 mimotope
                                                                                                                                                                                                                                                                                                                                               05-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                         AAB25929;
                                                                                                                                                                                                                                                                                                                                                                                                 AAB25929 standard;
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                                                                                                                                                                                                         WO200050460-A1
                                                                                                                                                      22-FEB-2000;
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                                                                                                                                                                                                                                                                                                                      peptide
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                                                                                                                                                         2000WO-EP001455
                      99GB-00010538.
99GB-00018594.
99GB-00018603.
99GB-00021046.
99GB-00021047.
99GB-00025619.
                                                                                                                               99GB-00004405.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 9;
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RESULT 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC surface exposed group/epitope (EI) of C-epsilon-2 domain (D) of cimmunoglobulin E (IgE), or its mimotope. Also described are: (1) and CC immunogen (II) for treating allergy comprising (I); (2) a vaccine (III) CC for treating allergies comprising (I); (3) a ligand (IV) capable of CC recognising E1; (4) a pharmaceutical composition (PC) comprising (IV); (6) a peptide (Ia) capable of being recognised by (IV); (6) an immunogen (CC (Ia) comprising (Ia); and (7) producing (III) by producing (III), (1) can have antiallergic and immunosuppressive activities, and can be used as a CC vaccine and histamine release inhibitor. (I); (II) and (III) are useful CC in medicine and also in manufacture of medicaments for treating and CC preventing allergies. (IV) is useful for identifying mimotopes of P1, in medicine and also in manufacturing medicaments for treating allergies. (CC (I) is useful in diagnostics and in the affinity purification of CC circulating anti-IgE antibodies from blood. (I), (III) and PC are useful CC is also useful in diagnosing atopy. ABS2507 to ABS2609 represent CC invention
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Best Local S
Matches 9
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Randall 1
                         21-DEC-1999;
22-FEB-2000;
22-AUG-2000;
22-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a peptide (I) comprising surface exposed group/epitope (E1) of C-epsilon-2 domain
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; linkage technology; conjugated compound; carrier vehicle; Cepsilon2; Cepsilon3; Cepsilon4; immunoglobulin E; IgE mediated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide P15t derived as mimotope of Cepsilon2 region of human IgE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAU16654;
                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                             antibody response.
                                                                                                                                                                21-DEC-2000;
                                                                                                                                                                                                                      28-JUN-2001
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9; Conser
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Turnell
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ilarity 100.0%;
Conservative 0
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                         99GB-00030233.
2000GB-00004096.
2000GB-00020707.
2000GB-00020708.
                                                                                                                                                                   2000WO-GB004935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 47;
Pred. No.
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Vinals Y De BassolsC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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f a specific
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                               ; epitope;
disease;
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              epitope (e.g. a peptide) to a carrier (e.g. a protein) for use in a pharmaceutical composition or a vaccine. The invention describes peptides derived from or mimotopes of the Cepsilon2, Cepsilon3 or Cepsilon4 regions of human immunoglobulin E (IgE) which are used to produce conjugated compounds. The compounds or compositions of the invention are useful in the manufacture of a medicament for the treatment of IgE mediated diseases. The invention allows for controlled conjugation of a peptide epitope (antigen) to a protein so as to form an immunogenic conjugate which may be able to raise a protective antibody response in an animal or human patient. ANI16632-ANU16913 represent peptides derived from or mimotopes of the Cepsilon2/Cepsilon3/Cepsilon4 region of human
        Conjugate for use in vaccine for treatment of allergy, comprises disulfide bridge cyclized peptide and immunogenic carrier.
                                                                                Friede M,
                                                                                                                                                                                                                                                                                                                                  Human
                                                                                                                                                                             17-AUG-2001; 2001WO-EP009576
                                                                                                                                                                                                                                   WO200216409-A2
                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                     Immunogen; human; IgE;
vaccine; antiallergic.
                                                                                                                                                                                                                                                                                                                                                          02-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                              ABJ00228 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to linkage methodology for use in the conjugation of compounds (e.g. peptides) to carrier vehicles (e.g. macromolecules, polymers, dendrimers, proteins) to produce biological and immunological constructs. The invention provides a method for linking an
                                                   WPI; 2002-489648/52
                                                                                                                                                   22-AUG-2000; 2000GB-00020717.
                                                                                                                                                                                                          28-FEB-2002.
                                                                                                                                                                                                                                                                                                                                                                                       ABJ00228;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ACAM-)
                                                                                                                         (SMIK)
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                                                                                                                                                                                                                                                                                                                              IgE immunogenic peptide SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              μ.
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                                                                                                        SMITHKLINE BEECHAM BIOLOGICALS. PEPTIDE THERAPEUTICS LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACAMBIS RES LTD. SMITHKLINE BEECHAM BIOLOGICALS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 comprising an immunogenic conjugate useful treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Johnson
                                                                             Mason S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                Turnell
                                                                                                                                                                                                                                                                                                 immunoglobulin E; allergy; thio-ether linkage;
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Pred. No. 0.015;
Mismatches 0
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                                                                             Vinals Y BassolsC;
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RESULT 10
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Best Local S
Matches 9
                                                                                                                                                                           The invention describes a method of treating chronic hepatitis comprising administering to a patient a T cell-stimulating amount of a vaccine comprising immunogenic particles dissolved or dispersed in a diluent, where the immunogenic particles consists of recombinant hepatitis B core (HBC) chimeric protein molecules, and maintaining the patient to induce T cells activated against HBC. The methods and compositions of the present
                                                          invention are useful for treating chromic hepatitis B infection. This the amino acid sequence of a chimeric hepatitis B virus related B-cell epitope useful for expression within the HBV chimer at the N-terminus, within the immunoigenic loop and/or at the C-terminus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treating chronic hepatitis B infection by administering a T cell-stimulating vaccine containing immunogenic particles having recombinant carboxy-terminal truncated hepatitis B core (HBc) chimeric protein
                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 136; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-852775/79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PAGE/)
(FRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-FEB-2002; 2002US-00080299.
21-FEB-2002; 2002US-00082014.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hepatotropic; virucide; antiinflammatory; chronic hepatitis; vaccine; recombinant hepatitis B core chimeric protein; HBc chimeric protein; hepatitis B infection; T-cel stimulator; B-cell epitope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADE10902 standard; peptide; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to conjugates suitable for use in vaccines, where the conjugate comprises a disulphide bridge cyclised peptide and an immunogenic carrier. The vaccines can be used in the treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-FEB-2003; 2003US-00372076
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chimeric hepatitis B virus related B-cell epitope seqid 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JAN-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   allergies. The present sequence is a peptide immunogen derived from human immunoglobulin E (IgE) suitable to be cyclised and used in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 9; 45pp; English.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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Query Match Best Local Similarity

100.0%;

Score Pred.

47; No.

DB 7; 0.015;

Length 10;

Sequence 10

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RESULT 11
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ID AAB25916
XX AAB25
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                                                                            The present invention describes a peptide (I) comprising an isolated surface exposed group/epitope (EI) of C-epsilon-2 domain (D) of cimmunoglobulin E (19E), or its mimotope. Also described are: (1) an immunogen (II) for treating allergy comprising (I); (2) a vaccine (III) conversing allergy comprising (II); (3) a ligand (IV) capable of recognising EI; (4) a pharmaceutical composition (PC) comprising (IV); (5) a peptide (Ia) capable of being recognised by (IV); (6) an immunogen (IIa) comprising (Ia); and (7) producing (III) by producing (II). (I) can have antiallergic and immunosuppressive activities, and can be used as a converse and histamine release inhibitor. (I), (II) and (III) are useful in medicine and also in manufacture of medicaments for treating and conversing antipodies (IV) is useful for identifying mimotopes of P1, in medicine and also in manufacturing medicaments for treating allergies. (IV) is useful for identifying mimotopes of P1, in suseful in diagnostics and in the affinity purification of circulating anti-IQE antibodies from blood. (I), (III) and PC are useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Randall
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29-OCT-1999;
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07-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   allergy; atopy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Epitope; mimotope; allergic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P1 mimotope peptide P15p SEQ ID NO:10.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               immunosuppressive; vaccine; histamine release inhibitor; immunogen;
     for treating a patient susceptible to or suffering from allergies. is also useful in diagnosing atopy. AAB25907 to AAB26099 represent peptide sequences which are used in the exemplification of the pres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptides useful for treating, preventing and ameliorating allergic diseases, comprising an isolated surface exposed group of a specific
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Turnell
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99GB-00010537.
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99GB-00025619.
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len MP, Vinals Y De BassolsC;
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RESULT 12
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Best Local (
The present invention describes a peptide (I) comprising an isolated surface exposed group/epitope (EI) of C-epsilon-2 domain (D) of immunoglobulin E (IGB), or its mimotope. Also described are: (1) an immunogen (II) for treating allergy comprising (I); (2) a vaccine (III) for treating allergy comprising (I); (3) a ligand (IV) capable of recognising EI; (4) a pharmaceutical composition (PC) comprising (IV); (5) a peptide (Ia) capable of being recognised by (IV); (6) an immunogen (IIa) comprising (Ia); and (7) producing (III) by producing (II). (I) can have antiallergic and immunosuppressive activities, and can be used as a vaccine and histamine release inhibitor. (I), (II) and (III) are useful in medicine and in the manufacture of medicaments for treating and preventing allergies. (IV) is useful for identifying mimotopes of P1, in
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                                                                                                                                                                                              Peptides useful for treating, preventing diseases, comprising an isolated surface domain from immunoglobulin E.
                                                                                                                                                                                                                                                                           Dyson M,
Randall R,
                                                                                                                                                                                                                                                                                                                (SMIK )
(PEPT-)
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                                                                                                                                                                      Claim 14; Page 9; 129pp; English.
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Pred. No. 0.02;
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Matches
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29-MAR-1999;
07-MAY-1999;
recognising E1; (4) a pharmaceutical composition (I) comprising the isolated surface exposed group/epitope (E1) of C-epsilon-2 domain (D) of immunoglobulin E (IgE), or its mimotope. Also described are: (1) an immunogen (II) for treating allergy comprising (I); (2) a vaccine (II) for treating allergies comprising (II); (3) a ligand (IV) capable of recognising E1; (4) a pharmaceutical composition (DA)
                                                                                                                                                                                                                             Peptides useful for treating, prediseases, comprising an isolated
                                                                                                                                                                    Claim
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23-NOV-1999;
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len MP, Vinals Y De
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25-FEB-1999;
25-FEB-1999;
13-AUG-1999;
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                                                                                                                                                                             Immunogens and vaccine comprising the immunogen useful for prevent: treating infectious diseases e.g. malaria and chronic disease e.g. cancer, comprises peptide and carrier from protein D of influenzae
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           prostate cancer; Haemophilus influenzae; vaccine; infectious disease;
malaria; cytostatic; antiallergic; nootropic; neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-JAN-2001
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(Ia) and a carrier (Ib) derived or its fragment. Also described excipient; (2) preparation of ()

describes an immunogen (I) comprising a b) derived from protein D of Haemophilus described are: (1) a vaccine comprising

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                                                                                                                                                                       The present invention relates to a composition comprising allergy peptides linked by an inert carrier. The allergy peptides are derived from Immunoglobulin E (IGE) or IGE receptor. The present peptide is one such peptide from IGE. The composition is useful as a vaccine or for manufacturing a medicament for the prophylaxis or treatment of allergy. In particular, for boosting an anti-allergy immune response in an individual susceptible to an allergic response
                                                                                                                                                                                                                                                                                                                                                                     New vaccine comprising allergy peptides linked by an inert carrier, useful for boosting an anti-allergy immune response in an individual susceptible to an allergic response.
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/ (cgn2_6/ptodata/2/pubpaa/US06_RUW_PUB.pep:*
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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12	12	12	12	12	12	12	16	14	14	12	16	14	14	12	BB	
US-10-362-527-142	US-10-362-527-100	US-10-362-527-326	US-10-362-527-324	US-10-362-527-96	US-10-362-527-10	US-10-362-527-8	US-10-677-074-136	US-10-372-076-136	US-10-082-014-282	US-10-362-527-12	US-10-677-074-127	US-10-372-076-127	US-10-082-014-273	US-10-362-527-1	ID	
142	100		324,		Sequence 10, Appl	Sequence 8, Appli	Sequence 136, App	Sequence 136, App	Sequence 282, App		Sequence 127, App	Sequence 127, App	Sequence 273, App	Sequence 1, Appli	Description	

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
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Sequence 5, Appli	2 1	е 11.	Œ	12	14,	e 10,	е В	œ		ω	(D	1,	o H		6	4	Ω Ni∵	o	4	N	Φ	σ.	'n	O VI	e 32	e 99	e 143, Ap	e 101,	Sequence 328, App

## ALIGNMENTS

US-10-362-527-1

GENERAL INFORMATION:

Sequence 1, Application US/10362527 Publication No. US20040030106A1

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FILE REFERENCE: B45236
CURRENT APPLICATION NUMBER: US/10/362,527
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: BB 0020717.5
PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 9
RESULT 2
US-10-082-014-273
; Sequence 273, Application US/10082014
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Best Local &
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APPLICANT: Mason, Sean
APPLICANT: Turnell, William Gordon
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: and Use Thereof in the Treatment of Allergies
                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
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9; Conserv
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Pred. No. 1.2e+06;
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US-10-372-076-127
US-10-372-076-127, Application US/10372076
; Sequence 127, Application US/10372076
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APPLICANT: Page, Mark
APPLICANT: Friede, Martin
TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR
TITLE OF INVENTION: CHRONIC HEPATITIS
FILE REFERENCE: 4564/87179
CURRENT APPLICATION NUMBER: US/10/372,076
CURRENT FILING DATE: 2003-02-21
PRIOR FILING DATE: 2002-02-21
PRIOR FILING DATE: 2002-02-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 10/082,014
PRIOR FILING DATE: 2002-02-22
NUMBER OF SEQ ID NOS: 308
SOFTWARE: Patentin version 3.2
SEQ ID NO 127
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PRIOR FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 290
SOFTWARE: Patentin version 3.1
SEQ ID NO 273
                                                                                                                                                                                                                         Sequence 127, Application US/10677074 Publication No. US20040156863A1
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Best Local Similarity
Matches 9; Conserv
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CURRENT APPLICATION NUMBER: US/10/082,014
CURRENT FILING DATE: 2002-02-22
                                                        APPLICANT: Page, Markin
APPLICANT: Friede, Martin
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Detlef
APPLICANT: Stober, Detlef
TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR
TITLE OF INVENTION: CHRONIC HEPATITIS
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TITLE OF INVENTION: IMMUNOGENIC HBC CHIMER PARTICLES STABILIZED WITH AN N-TERMINAL CY
FILE REFERENCE: 4564/87179
CURRENT APPLICATION NUMBER: US/10/677,074
CURRENT FILING DATE: 2003-10-01
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TYPE: PRT
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ORGANISM: Homo sapiens
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Pred. No. 1.2e+06;
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; TYPE: PRT ; ORGANISM: Homo sapiens US-10-362-527-12
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; ORGANISM: Homo sapiens
US-10-677-074-127
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APPLICANT: Turnell, William Gordon
APPLICANT: Turnell, William Gordon
APPLICANT: Vinals Y De Bassols, Carlota
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Comprisi
TITLE OF INVENTION: and Use Thereof in the Tre
FILE REFERENCE: B45236
CURRENT APPLICATION NUMBER: US/10/362,527
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR APPLICATION NUMBER: GB 020717.5
PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
POTENTIAL SECTION OF MAINTAINE TO THE POTENTIAL OF THE POTEN
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Matches 9; Conserv
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NUMBER OF SEQ ID NOS: 290
SOFTWARE: PatentIn version 3.1
SEQ ID NO 282
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Best Local
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Publication No. US20030185858A1
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                                                                                                                        CURRENT APPLICATION NUMBER: US/10/082,014
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 09/930,915
PRIOR FILING DATE: 2001-08-15
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NUMBER OF SEQ ID NOS: 308
SOFTWARE: PatentIn version 3.2
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PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 10/082,014
                                                                                                                                                                                                                                                                              APPLICANT: Birkett, Ashley J.
TITLE OF INVENTION: IMMUNOGENIC HBc CHIMER PARTICLES STABILIZED WITH AN N-TERMINAL CYS
FILE REFERENCE: ICC-130.0 4564/85124
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APPLICANT: Mason, Sean
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PRIOR FILING DATE: 2002-02-21
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100.0%; Pred. No. 1.2e+06;
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APPLICANT: Page, Mark
APPLICANT: Friede, Martin
APPLICANT: Friede, Martin
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Annette Elisabeth
TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS
TITLE OF INVENTION: CHRONIC HEPATITIS
FILE REFERENCE: 4564/87179
CURRENT APPLICATION NUMBER: US/10/677,074
CURRENT APPLICATION NUMBER: 10/372,076
PRIOR APPLICATION NUMBER: 10/372,076
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 10/080,299
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 10/082,014
PRIOR FILING DATE: 2002-02-22
PRIOR FILING DATE: 2002-02-22
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CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: 10/080,299
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 10/082,014
PRIOR FILING DATE: 2002-02-22
NUMBER OF SEQ ID NOS: 308
SOFTWARE: Patentin version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 136, Application US/10677074 Publication No. US20040156863A1 GENERAL INFORMATION:
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Matches
                                                    SOFTWARE: PatentIn version 3.2
SEQ ID NO 136
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APPLICANT: Page, Mark
APPLICANT: Friede, Martin
TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS
TITLE OF INVENTION: CHRONIC HEPATITIS
FILE REFERENCE: 4564/87179
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LENGTH: 10
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                                                                                            NUMBER OF SEQ ID NOS: 308
ORGANISM: Homo sapiens
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TYPE: PRT
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9; Conserv
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o. US20030198645A1
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Sequence 10, Application US/10362527

Publication No. US20040030106A1

GENERAL INFORMATION:
APPLICANT: Friede, Martin
APPLICANT: Mason, Sean
APPLICANT: Vinnel1, William Gordon
APPLICANT: Vinnel5 Y De Bassols, Carlota
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Compris:
TITLE OF INVENTION: and Use Thereof in the Tr
FILE REFERENCE: B45236
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CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: GB 0020717.5
PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
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                                               US-10-362-527-10
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                                                                                                                            SEQ ID NO 10
        Query Match
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Best Local :
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Publication No. US20040030106A1
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Best Local
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CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR FILING DATE: 2001-08-17
                                                                                                                                                                  PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
                                                                                                                                             SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: GB 0020717.5
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                                                           LENGTH: 13
TYPE: PRT
ORGANISM: Homo sapiens
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APPLICANT: Mason, Sean
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TYPE: PRT
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Local Similarity 100.0%;
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100.0%; Pred. No. 0.032;
    100.0%;
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Pred. No. 0.024;
    Score 47;
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    DB
                                                                                                                                                                                                                                                                                                                                Treatment of Allergies
    12;
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Length 13;
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CURRENT APPLICATION NUMBER: US/10/362,527;
CURRENT FILING DATE: 2003-02-21;
PRIOR APPLICATION NUMBER: PCT/PD1/09576;
PRIOR FILING DATE: 2001-08-17;
PRIOR APPLICATION NUMBER: GB 0020717.5;
PRIOR FILING DATE: 2000-08-22;
NUMBER OF SEQ ID NOS: 328;
SOFTWARE: FastSEQ for Windows Version 4.0;
SEQ ID NO 324
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US-10-362-527-96
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US-10-362-527-324
, OTHER INFORMATION: Artificial variant of Homo sapiens IgE peptide US-10-362-527-324 \,
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PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 96
LENGTH: 13
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APPLICANT: Mason, S
APPLICANT: Turnell,
APPLICANT: Vinals N
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Publication No. US20040030106A1
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CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR FILING DATE: 2001-08-17
                                                                                                                                                                                                                                                                                                                               APPLICANT: Turneil, William Gordon
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Compu
TITLE OF INVENTION: and Use Thereof in the
FILE REFERENCE: B45236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: and Use Thereof in the Treatment of Allergies
FILE REFERENCE: B45236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Friede, Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Mason, Sean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Artificial variant of Homo sapiens IgE peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                TYPE: PRT
ORGANISM: Artificial Sequence
                                             FEATURE:
                                                                                                           ENGTH: 14
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Vinals Y De Bassols, Carlota
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; Mismatches
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Pred. No. 0.032;
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                                                                                                                                                                                                                                                                                                                                                          Comprising Disulphide Bridged Cyclised Peptide n the Treatment of Allergies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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US-10-362-527-100
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; OTHER INFORMATION: US-10-362-527-100
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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Best Local
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                                                                                                                      SEQ ID NO 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide TITLE OF INVENTION: and Use Thereof in the Treatment of Allergies FILE REFERENCE: B45236 CURRENT APPLICATION NUMBER: US/10/362,527 CURRENT FILLING DATE: 2003-02-21 PRIOR APPLICATION NUMBER: PCT/EP01/09576 PRIOR FILING DATE: 2001-08-17 PRIOR FILING DATE: 2001-08-17
                                                                                                                                                                                                                                                               APPLICANT: Friede, Martin
APPLICANT: Mason, Sean
APPLICANT: Turnell, William Gordon
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: and Use Thereof in the Treatment of Allergies
FILE REFERENCE: B45236
CURRENT APPLICATION NUMBER: US/10/362,527
CURRENT FILING DATE: 2003-02-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Friede,
APPLICANT: Mason,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: GB 0020717.5
PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                         PRIOR APPLICATION NUMBER: GB 0020717.5
PRIOR FILING DATE: 2000-08-22
NUMBER OF SEQ ID NOS: 328
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: PCT/EP01/09576 PRIOR FILING DATE: 2001-08-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE: OTHER INFORMATION: Artificial variant of Homo sapiens IgE peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
                                      LENGTH: 20
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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Vinals Y De Bassols, Carlota
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                       Artificial variant of Homo sapiens IgE peptide
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Pred. No. 0.035;
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APPLICANT: Friede, Martin
APPLICANT: Friede, Mascon, Sean
APPLICANT: Turnell, William Gordon
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
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TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TURENT APPLICATION NUMBER: US/10/362,527
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: ECT/EPO1/09576
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: ECT/EPO1/09576
PRIOR FILING DATE: 2001-08-22
NUMBER OF SEQ ID NO.8-22
SEQ ID NO.142
ISSO ID NO.144
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Search completed: August 23, 2004, 10:50:19 Job time : 124 secs
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Best Local Similarity
Matches 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 100.0%; Score 47; DB 12; Length 20; Best Local Similarity 100.0%; Pred. No. 0.051; Matches 9; Conservative 0; Mismatches 0; Indels
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Match
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1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Sequence 6594, Ap

Sequence 7128, Ap

Sequence 17208, Ap

Sequence 2, Appli

Sequence 5032, Ap

Sequence 2215, A

Sequence 21, Appl

Sequence 21, Appli

Sequence 21, Appli

Sequence 3, Appli

Sequence 9, Appli

Sequence 1, Appli

Sequence 1, Appli

Sequence 15753, A

Sequence 15753, A

Sequence 1, Appli

Sequence 1, Appli

Sequence 1, Appli

Sequence 1, Appli

Sequence 7, Appli

Sequence 44, Appli

Sequence 47, Appli

Sequence 44, Appli
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Query Match
Best Local Similarity
Matches 6; Conserv

Conservative

70.2%; 85.7%;

Score 33; DB Pred. No. 1.4e

Db -; . 1.4e+02; 0;

Length 462; Indels

0,

Gaps

0

RESULT 2 US-09-328-352 ; Sequence 71 ; Patent No. ; GENERAL INF ; GENERAL INF ; FILE OF I ; FILE REFER ; CURRENT FA ; CURR	Query Matc Best Local Matches Qy	RESULT 1 US-09-543-681. Sequence 65 Patent No. GENERAL INF APPLICANT: TITLE OF 11 FILE REFER: CURRENT APPL PRIOR FILI PRIOR FILI INUMBER OF 15 PRIOR FILI INUMBER OF 15 PRIOR TIPE FRIOR FILI INUMBER OF 15 PRIOR FILI INUMBER OF 15 PRIOR FILI INUMBER OF 15 CORANISM: SEQ ID NO 6: LENGTH: 11 TYPE: PRI ORGANISM: US-09-543-681		22 C C C C C C C C C C C C C C C C C C
352-7128 7128, Applic 7128, Applic 7128, Applic 1652258 NITEGRAY L. E FINVENTION: FINVENTION: FINVENTION: FERENCE: GTC APPLICATION FILING DATE: OF SEQ ID NOS 7128 162 PRT SM: Acinetoba 352-7128	h Similarity 7; Conserv 1 EDGQVMDVD	681A-6594 6894, Applica 66594, Applica 6605709 INFORMATION: NT: GARY BRETC F INVENTION: NFINTENENCE: 2709- APPLICATION NFILING DATE: 1701 PELLING		31 66.0 31 66.0 31 66.0 31 66.0 31 66.0 31 66.0 31 66.0 31 66.0 31 66.0 31 66.0
	74.5% 77.8% ive	TON		00000000000000000000000000000000000000
09328352 al. CID AND AMINO ACID FOR DIAGNOSTICS AN S/09/328,352 04	; Score 35; DB 4; Length 10 ; Pred. No. 1.5e+02; 0; Mismatches 2; Indels	US/09543681A  C ACID AND AMINO ACID SEQUENCES  OSTICS AND THERAPEUTICS  1001  101  102/09/543,681A  104-05  US 60/128,706	ALIGNMENTS	US-09-198-452A-1081 US-09-107-532A-6113 US-09-134-001C-3199 US-09-252-991A-22340 US-08-933-115-2 US-09-205-008-2 US-09-206-115-2 US-09-207-532A-7057 US-09-107-532A-7057 US-09-489-039A-9844 US-09-252-991A-31115 US-09-991-432-2 US-09-991-432-2 US-09-214-139B-4 US-09-214-139B-4 US-09-214-139B-4 US-09-214-139B-4 US-09-214-139B-4 US-09-134-001C-3440 US-09-134-001C-3440 US-09-1489-039A-11230 US-09-842-164A-6 US-09-621-976-6581
SEQUENCES RELATING TO ACINETOBACTER	1095; els 0; Gaps 0;	es relating to proteus mirabi		Sequence 1081, Ap Sequence 6113, Ap Sequence 3199, Ap Sequence 23340, A Sequence 2, Appli Sequence 2, Appli Sequence 7057, Ap Sequence 7057, Ap Sequence 31115, A Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli Sequence 6437, Ap Sequence 6437, Ap Sequence 6437, Ap Sequence 6581, Appli Sequence 6581, Appli

IRABILI

GOVMDVD

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US-09-252-991A-17208
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US-09-328-352-6123
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// ORGANISM: Acinetobacter baumannii
US-09-328-352-6123

                                                                                                                                     US-09-396-651B-2
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APPLICANT: Gary L. Breton et al.

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 6123
LENGTH: 948

LENGTH: 948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: MARC J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 50.0
Conservative
                                                         GENERAL INFORMATION: APPLICANT: Darst,
                                                                                             Sequence 2, Application US/09396651B Patent No. 6225076
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 6123, Application US/09328352 Patent No. 6562958
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
   APPLICANT:
                     APPLICANT:
                                         APPLICANT:
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ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
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5. 6551795
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Darst, Seth A
Zhang, Gongyi
Campbell, ELizabeth
Minakin, Leonid
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                                                                                                                                                                                                                                                                                                           70.2%;
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85.7%;
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Pred. No. 1.4e+02;
1; Mismatches 0
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Pred. No. 3.1e+02;
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APPLICANT: AntiCancer
APPLICANT: Zhao, Ming
TITLE OF INVENTION: METHOD AND MODEL FOR HAIR PIGMENTATION
FILE REFERENCE: 31276-20017.00
CURRENT APPLICATION NUMBER: US/09/427,700
CURRENT FILING DATE: 1999-10-27
PRIOR APPLICATION NUMBER: US 60/105,725
PRIOR FILING DATE: 1998-10-27
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 12
LENGTH: 273
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Homo sapiens US-09-621-976-5032
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                                                                                                                                                                                                                                                 Sequence 12, Application US/09427700 Patent No. 6372489 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              70.2%;
Best Local Similarity 66.7%;
Matches 6; Conservative
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SEQ ID NO 5032
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
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CURRENT APPLICATION NUMBER: US/09/396,651B
CURRENT FILING DATE: 1999-09-15
NUMBER OF SEQ ID NOS: 4
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TITLE OF INVENTION: A CRYSTAL OF BACTERIAL CORE RNA POLYMERASE AND METHODS
TITLE OF INVENTION: OF USE THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE:
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LOCATION: (695)..(696)
OTHER INFORMATION: Any amino acids can be at these two positions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Thermus aquaticus
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
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6; Conserva
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66.7%;
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Pred. No. 55;
1; Mismatches
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Pred. No. 3.8e+02;
2; Mismatches 1
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RESULT 9
US-08-705-771-21
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US-09-252-991A-22215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
GENERAL INFORMATION: Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: MARC J. RUBENFIELD AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21, Appli
Patent No. 6054289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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LENGTH: 293
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Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
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                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Paul M
APPLICANT: Jian N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/094,190 PRIOR FILING DATE: 1998-07-27 NUMBER OF SEQ ID NOS: 33142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
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ORGANISM: Artificial Sequence
FEATURE:
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/7
FILING DATE: August 30, 199
CLASSIFICATION: 536
                                                                                                                                                                 STREET: 6 LL
CITY: ROSELAND
CTATE: NEW JERSEY
                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 2
                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
                                                                                 OPERATING SYSTEM: MS-DOS
                                                                                                     COMPUTER: IBM PS/2
                                                                                                                                                        ZIP:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 100.
nes 6; Conservative
                                                                                                                                                                                                                                        ADDRESSEE:
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                                                                                                                                                                                                                    E: CARELLA, BYRNE,
E: CECCHI, STEWART
6 BECKER FARM ROAD
                                                                                                                                                                                                                                                                                                                        Paul Moore, Reiner Gentz, Hongjin Ji,
Jian Ni and Jing-Shan Hu
WENTION: Human Genes, Sequences and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
 August 30, 1996
N: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68.1%;
66.7%;
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                              US/08/705,771
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Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                        BAIN, GILFILLAN
                                                                                                                                                                                                                                        & OLSTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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1.2e+02;
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US-09-417-540-21
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US-09-417-540-21
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Query Match
Best Local Similarity bo...
6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6639052
GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 21:
                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: 973-994-1700
TELEPAX: 973-994-1744
INFORMATION FOR SEQ ID NO: 21:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acid
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les 6; Conserv
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REGISTRATION NUMBER: 33,073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE:
                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 08/705,771
FILING DATE: August 30, 1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 14-Oct-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
                                                                                                           MOLECULE TYPE: protein SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,
Jian Ni and Jing-Shan Hu
TITLE OF INVENTION: Human Genes, Sequences and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 33,073 REFERENCE/DOCKET NUMBER: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: 3.5 INCH DIS
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
                                                                                                                                                  TOPOLOGY: linear
                                                                                                                                                                LENGTH: 394 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                           NAME: MULLINS, J.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 07068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: CARELLA, BYRNE, BAIN, GIL
CECCHI, STEWART & OLSTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EDGQLSDSD 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/09/417,540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 6 BECKER FARM ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/09417540
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                                         68.1%;
66.7%;
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                         Score 32; DB 4; Le
Pred. No. 1.8e+02;
1; Mismatches 2;
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Pred. No. 1.8e+02;
                                                                                                                                                                                                                                                                                         325800-346 (PF196)
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                                                        Length 394;
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RESULT 11
US-08-152-483B-3
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US-08-152-483B-3
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Patent No. 5529909
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                                                                                                                                                                                                                                                      TELEX: 66141 PENNIE INFORMATION FOR SEQ ID NO:
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STREET: April Park
CITY: Menlo Park
CTATE: California
                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: January 16, 1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 737,899
FILING DATE: July 26, 1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 641,617
FILING DATE: January 17
FILING DATE: January 17
FRIOR APPLICATION NUMBER: 641,617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 923,692
FILING DATE: July 31, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 600,244
FILING DATE: October 22, 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 7/857,60 FILING DATE: March 30, 1992 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: NO. 5529
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
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SOFTWARE: Version #1.25
CURRENT APPLICATION DATA:
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APPLICANT: Kumagai,
                                                              ANTI-SENSE: NO ORIGINAL SOURCE: ORGANISM:
                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: BITTELECOMMUNICATION INFORMATION:
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                                                 IMMEDIATE SOURCE
                                                                                                 HYPOTHETICAL: r
                                                                                                                                   MOLECULE TYPE:
DESCRIPTION:
                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                           NAME: Halluin, Albert P. REGISTRATION NUMBER: 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
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                               CLONE:
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                                                                                                                                                                    TOPOLOGY:
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2730 Sand Hill Road
                                                                                                                                                                                                                                                                                         (415)
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                                                                                                                                                                   linear
                                                                                                                   : protein
                                                                                                                                                                                                                                                                                                      (415) 854-3660
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                                                                                                                                                                                                                                                                                        854-3694
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  923,692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7/857,602
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US-08-152-483B-7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0,
SOFTWARE: Version #1.25
CURRENT APPLICATION DATA:
ADDITIONTON DATA:
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ETLING DATE: July 31, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 660,244
FILING DATE: OCCODER 22, 1990
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: 6641,617
FILING DATE: January 16, 1991
PRIOR APPLICATION UMBER: 737,899
FILING DATE: July 26, 1991
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: 66141 PENNIE INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 7/857,602
FILING DATE: March 30, 1992
PRIOR APPLICATION DATA:
                                                                                                        HYPOTHETICAL: N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Halluin, Albert P.
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: BIOG-20240/8129-040
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                 MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                      ANTI-SENSE: NO ORIGINAL SOURCE:
IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 2730 Sand Hill Road CITY: Menlo Park STATE: Calter
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (415)
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                                                                                                                                                                               DESCRIPTION:
                                                                                                                                                                                                                                                                                           STRANDEDNESS:
                                         ORGANISM:
                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  112 DGQVMD 117
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                                                                                                                                                 No
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100.0%; Pred. No. 1.9e+02;
bive 0; Mismatches 0;
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RESULT 13
US-08-152-483B-9
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US-08-152-483B-7
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ZIP: 94025
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: IBM PC compatible
TOWNITER: IBM PC-DOS/MS-DOS
TOWNITER: TOWNITER
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APPLICATION NUMBER: 7/857,602
FILING DATE: March 30, 1992
PRIOR APPLICATION DATA:
APPLICATION UMBER: 923,692
FILING DATE: July 31, 1992
PRIOR APPLICATION DATA:
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APPLICANT: Della-Cioppa, Guy
APPLICANT: Kunagai, Monto
TITLE OF INVENTION: TYROSINASE-ACTIVATOR
TITLE OF INVENTION: PROTEIN FUSION ENZYME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 600,244
FILING DATE: October 22, 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 641,617
FILING DATE: January 16, 1991
PRIOR APPLICATION NUMBER: 737,899
FILING DATE: JULY 26, 1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           TELEX: 66141 PENNIE INFORMATION FOR SEQ ID NO: 9:
                                                                                                                                                   TOPOLOGY: 1: MOLECULE TYPE:
HYPOTHETICAL: NAMII-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Halluin, Albert P.
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: BIOG-20240/8129-040
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 854-3660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0,
SOFTWARE: Version #1.25
CURRENT APPLICATION DATA:
TOTAL APPLICATION DATA:
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ADDRESSEE: Pennie & Edmonds
STREET: 2730 Sand Hill Road
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                                                                                                       DESCRIPTION:
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FILING DATE: No. 5529909ember 12, 1993
CLASSIFICATION: 435
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CITY: Menlo Park
STATE: California
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US-08-724-281-1
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                                                      Query Match
Best Local Similarity
Matches 5; Conserv
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INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004
FILING DATE: 02-OCT-1995
ATTORNEY/AGENT INFORMATION:
NAME: Teskin, Robin L.
REGISTRATION NUMBER: 35,030
REFERENCE/DOCKET NUMBER: 0100
TELECOMMUNICATION INFORMATION:
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APPLICANT: SCHLEG
                                                                                                                                    TOPOLOGY: li
                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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APPLICANT: GHIM, Shin-Je
TITLE OF INVENTION: PAPII
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                               LENGTH: 508 amino acids
TYPE: amino acid
TYPE: single
STRANDEDNESS: single
                                                                                                                                                                                                                            TELEPHONE: (703) 836-2021
                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 01-OCT-1996
CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: P.O. Box
CITY: Alexandria
STATE: Virginia
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200 EDGDMMDI 207
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                            1 EDGQVMDV 8
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: United States
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P.O. Box 1404
                                                           Conservative
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                                                                                                                                    protein
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62.5%;
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                                                        Score 32; DB 2;
Pred. No. 2.4e+02;
2; Mismatches 1
                                                                                   Length 508;
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; Sequence 1, Application US/09134377
; Patent No. 6485728

RESULT 15 US-09-134-377-1

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GENERAL INFORMATION:
APPLICANT: SCHLEGEL, C. Richard
APPLICANT: JUSSON, A. Bennett
APPLICANT: GHIM, Shin-de
APPLICANT: GHIM, Shin-de
TITLE OF INVENTION: PARLICMAVIRUS VACCINES
TITLE OF INVENTION: PARLICMAVIRUS VACCINES
TITLE OF INVENTION: APPLICANTON
MUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSES: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. BEX 1404
SCONFUTER: ALPADRESS:
CONFUTER: PLOPY disk
COMPUTER: TITLE ORN.
MEDITION TYPE: Flopy disk
COMPUTER: APPLICATION DATA:
APPLICATION NUMBER: US/09/134,377
FILING DATE:
CLASSIFICATION NUMBER: US/09/134,377
FILING DATE:
CLASSIFICATION NUMBER: US/09/134,377
FILING DATE:
TRICK APPLICATION DATA:
APPLICATION NUMBER: US/09/134,377
FILING DATE:
TRICK OF THE TITLE ORNATION:
TRICK THE TITLE ORNATION:
TRICK THE TITLE ORNATION NUMBER: US/09/134,377
FILING DATE: TREATH ORNATION NUMBER: US/09/134,377
FILING DATE: TREATH ORNATION NUMBER: US/09/134,377
FILING DATE:
TRICK ORNATION PORMATION:
TRICK THE TITLE ORNATION NUMBER: US/09/134,377
FILING DATE: TREATH ORNATION UNMBER: US/09/134,281
FILING DATE: TREATH ORNATION DATE
TREATH ORNATION PORMATION:
TREATH ORNATION POR
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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq
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Perfect score:
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   on:
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 No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, s derived by analysis of the total score distribution.
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[ length: 9
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Match
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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4 : 3 : 1
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                            PT0604
PT0657
PT0543
A28719
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A56029 A1890 B35640 PC2370 PC2370 PT0279 S67296 B45796 B45796 B45796 B45796 B45796 B45796 B707070 B31836 C60070 B31836 C7070703 B70703 B70703 B70703 B70703 B70703 B70703 B70703 B70703 B70704

dihydrolipoamide S calsequestrin, car ATPase R1 subunit gastrin - domestic 20% protein - Rick T-cell receptor be

probable H+-transp Ig heavy chain CRD Na+-transporting A dihydrolipoamide S

cerebellar degener

whey glycoprotein fatty-acid synthas T-cell receptor be T-cell receptor be

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Pseudom

PT0557 B39841 D44787

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PT0543
T-cell receptor beta chain V-D-J region (126-1BE) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0543
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A; Residues: 1-7 <FEE>
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A;Title: Junctional sequences of
A;Reference number: PT0509; MUID:
A;Accession: PT0543
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R;Burstein, Y.; Buchner, V.; Pecht, M.; Trainin, N.
Biochemistry 27, 4066-4071, 1988
B;Title: Thymic humoral factor gamma-2: purification and A;Reference number: A28719; MUID:88326920; PMID:3261994
A;Accession: A28719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          thymic humoral factor gamma-2 - bovine (fragment) C;Species: Bos primigenius taurus (cattle) C;Date: 30-Sep-1989 #sequence_revision 30-Sep-198
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N;Alternate names: T-cell hybridoma D6-18 protein
C;Species: Homo sapiens (man)
C;Date: 31-Jan-1992 #sequence_revision 31-Jan-1992 #text_change 23-Feb-1997
C;Accession: A37027
C;Accession: A37027
C;Yoshizuka, N.; Yoshimura, M.; Tsuchiya, S.; Okamoto, K.; Kobayashi, Y.; Os
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Pred. No. 2.8e
1; Mismatches
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macrophage cytotoxicity-inducing factor, 29K - human (fra C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_
C;Accession: A60427
R;Jones, C.M.; Prince, C.A.; Williams, J.S.
Exp. Hematol. 19, 704-709, 1991
A;Title: Purification and amino acid analysis of a human A;Reference number: A60427; MUID:91372335; PMID:190970
A;Accession: A60427
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PT0271
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A; Residues: 1-9 < JON>
A; Note: the sequence from
C; Keywords: cytokine
                                                                                                                                                                     polyphosphate-glucose phosphotransferase (EC 2.7.1.63) - Propionibacterium freudenreichii C,Species: Propionibacterium freudenreichii subsp. shermanii C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 03-Jun-2002 C;Accession: S29735 R;Phillips, N.F.B.; Horn, P.J.; Wood, H.G. Arch. Biochem. Biophys. 300, 309-319, 1993 A;Title: The polyphosphate- and ATP-dependent glucokinase from Propionibacterium shermani A;Reference number: S29735; MUID:93143332; PMID:8380966
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A;Residues: 1-4 </AM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunogi
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: PT0222; MUID:91108337; PMID:1899102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision
C;Accession: PT0271
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S29735
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                                                                            C; Keywords: phosphotransferase
                                                                                             A; Residues:
                                                                                                 A; Molecule type: protein
A; Residues: 1-7 < PHI >
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R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992

A;Title: ISolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: D44787
                                                      A;Molecule type: protein
A;Residues: 1-9 <DUV>
C;Keywords: amidated carboxyl end; neuropeptide
F;9/Modified site: amidated carboxyl end (Phe) #status
                                                                                                                                                                                                                                                         calliFMRFamide 13 - bluebottle fly (Calliphora vomitoria)
C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: D44787
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C;Date: 20-Mar-1992 #sequence_revision 20-Mar-1992 #text_change 23-Jun-1993
C;Accession: B39841
R;Mooser, G; Hefta, S.A.; Paxton, R.J.; Shively, J.E.; Lee, T.D.
J. Biol. Chem. 266; 8916-8922, 1991
A;Title: Isolation and sequence of an active-site peptide containing a catalytic asparti A;Accession: B39841
A;Accession: B39841
A;Status: preliminary
A;Status: preliminary
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A; Residues: 1-9 < MOO>
C; Keywords: glycosyltransferase;
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A;Title: Junctional sequences of fetal T cell receptor beta chains have few
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0557
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A; Residues: 1-8 <FEE>
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cerebellar degeneration-related protein - mouse (fragment)
(;Species: Mus musculus (house mouse)
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 24-Jun-1993
C;Accession: B35640
R;Chen, Y.T.; Rettig, W.J.; Yenamandra, A.K.; Kozak, C.A.; Chaganti, R.S.K.; Posner,
Proc. Natl. Acad. Sci. U.S.A. 87, 3077-3081, 1990
A;Title: Cerebellar degeneration-related antigen: a highly conserved neuroectodermal
A;Reference number: A35640; MUID:90222173; PMID:2326268
A;Accession: B35640
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A,Title: Purification and biochemical characterization of recombinant N-methylpurine-DNA
A,Reference number: A56029; MUID:95092772; PMID:7999773
A,Accession: A56029
                                                    A; Molecule type:
A; Residues: 1-6
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A; Residues: 1-4 <SLE>
A; Cross-references: GB: M81463
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J. Bacterio
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A/Title: Escherichia coli K-12 and B contain functional bacteriophage P2 ogr genes.
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C, Species: Escherichia coli
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A; Residues: 1-9
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C;Species: Mus musculus (house mouse)
C;Date: 19-Jan-1996 #sequence_revision 19-Jan-1996 #text_change 19-Jan-1996
C;Accession: A56029
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        RESULT 4
FARD_CALVO
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TISSUE-Stomach;
MEDLINE-92082847; PubMed=1747388;
MEDLINE-920847847; PubMed=1747888;
MEDLINE-92082847; PubMed=1747888;
MEDLINE
                                                                                                              P41868;
01-NOV-1995
01-NOV-1995
01-NOV-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hormone.
SEQUENCE
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MEDLINE=99349136; PubMed=10420651;
Hernandez-Pinzon I., Ross J.H.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Astacid
Nephropoidea; Nephropidae; Nephrops.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-MAR-1992 (Rel. 21, Created)
01-MAR-1992 (Rel. 21, Last sequence updated)
01-MAR-1992 (Rel. 21, Last annotation updated)
Gastrin/cholecystokinin-like peptide D1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NON
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Planta 208:588-598(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Composition and role of tapetal lipid bodies in the biogenesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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01-MAR-1992
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Calliphora vomitoria (Blue blowfly).
Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
                                                                                           CalliFMRFamide 13.
                                                                                                                                                                                                                       FARD_CALVO
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(Rel. 32, Last sequence up
(Rel. 32, Last annotation
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Pred. No. 1.4e+05;
2; Mismatches 0
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Pred. No.
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P02729;
21-JUL-1986 (Rel.
21-JUL-1986 (Rel.
16-OCT-2001 (Rel.
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MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Calliphoridae; Calliphora.
NCBI_TaxID=27454;
                                                                                                                                                                                                                                                                            Lote C.J., Weiss J.B.;

"Identification in urine of a low-molecular-weight highly polar
glycopeptide containing cysteinyl-galactose.";

Biochem, J. 123:259-259 (1971).

1- FUNCTION: The identity of the glycoprotein from which this peptide
is derived is unknown. No physiological function has been
attributed. An erythrocyte membrane glycopeptide having a
similar structure has also been found.

PIR: A03188; XGHIEU.
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PIR; D44787; D44787.
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Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
i- SIMILARITY: Belongs to the FARP (FMRFamide re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Duve H., Johnsen A.H., S
Rehfeld J.F., Thorpe A.;
28-FEB-2003
28-FEB-2003
28-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Neuropeptide; Amidation.
MOD_RES 9 9
                                     FAR6 MACRS
P83279;
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SEQUENCE
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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                                                                                                                                                                                                                                                      Glycoprotein.
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2; Conserv
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22D10699C87AB6D8 CRC64;
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Pred. No. 1.4e+05;
1; Mismatches C
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Pred. No.
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RESULT 7
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Matches 2
                                                                                                                                   Hydrolase.
NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                     Gomez R., Losada M., Serrano A.;
Submitted (JUN-2001) to Swiss-Prot.
-!- CATALYTIC ACTIVITY: Diphosphate + H(2)O = 2
-!- SUBCELLULAR LOCATION: Cytoplasmic.
                                                                                                                                                                                                                                                                                                                                Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                    Rhodopseudomonas viridis.
Bacteria; Proteobacteria; Alphaproteobacteria;
Hyphomicrobiaceae; Blastochloris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Inorganic pyrophosphatase (EC 3.6.1.1) (Pyrophosphate phosphohydrolase) (PPase) (Fragment).
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16-OCT-2001
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-i- MASS SPECTROMETRY: MW=1080.7; METHOD=MALDI.

-i- SIMILARITY: Belongs to the FARP (FMRFamide related processes).
                                                                                                                                                                                     InterPro; IPR00816
PROSITE; PS00387;
                                                                                                                                                                                                                       HAMAP; MF_00209;
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                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=1079;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sithigorngul P., Saraithongkum W., Sithigorngul W., Petsom A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neuropeptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <del>ე</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Eyestalk;
MEDLINE=21107394; PubMed=11179812;
                                                                                                                                                                                                                                                                              -!- MISCELLANEOUS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IPYR_RHOVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=79674;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bumalacostraca; Eucarida; Decapoda; Pleocyemata; Caridea; Palaemonoidea; Palaemonidae; Macrobrachium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Macrobrachium rosenbergii (Giant fresh water prawn).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FMRFamide-like
                                                                                                                                                                                                                                          SIMILARITY: Belongs to
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                                MDVD
MRID
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                                                                                                                                                                                                     IPR008162; Pyrophosphatase
                                                                                                                                                                                                                                                                                                                                                                  FUNCTION,
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                                                                 Conservative
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                                                                                                                                   1014 MW;
                                                                                                                                                                                      PPASE;
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100.0%; F1
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50.0%;
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                                                                                Score 12;
Pred. No.
                                                                                                                                 68F3EAA05DDAA044 CRC64;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                LOCATION
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                                                                                                                                                                                                                                      family.
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RESULT 8 RE42\_LITRU

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RESULT UPON ACCOMENS MACCOMENS MACCO
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Best Local S
Matches 1
                                         NON
                                                                                                                                      Merrick B.A., Patterson R.M., Wichter L.L., He C., Selki "Separation and sequencing of familiar and novel murine using preparative two-dimensional gel electrophoresis."
                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus (Mouse)
Eukaryota; Metazoa; (
Mammalia; Eutheria; I
                                                         Electrophoresis 15:735-745(1994).
-!- MISCELLANEOUS: On the 2D-gel the determined protein is: 6.0, its MW is: 32 kDa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOUSE
      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-MAR-2004 (Rel. 43, Last ar
Unknown protein from 2D-page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-1994
15-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        P38640;
01-OCT-1994
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Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H.
Tyler M.J., Wallace J.C.;
"The structure of new peptides from the Australin red
'Litoria rubella'. The skin peptide profile as a probe
of evolutionary trends of amphibians.";
Aust. J. Chem. 49:955-963(1996).
                                                                                                                                                                                                                                               MEDLINE=95009907; PubMed=7523108;
                                                                                                                                                                                                                                                                            TISSUE=Fibroblast;
                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Amphibian defense peptide; Amidation
MOD_RES 9 9 AMIDATI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Skin secretion;
Wabnitz P.A., Bowie J.H., Tyler
"Peptides from the skin glands
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae; Pelodryadinae; Litoria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aust.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rubella.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RE42_LITRU STANDARD; PRT; 9 AA P82075; P82093; 28-FEB-2003 (Rel. 41, Created) 28-FEB-2003 (Rel. 41, Last sequence update) 10-OCT-2003 (Rel. 42, Last annotation updat Rubellidin 4.2/4.3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -!- FUNCTION: Shows neither neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Litori electrica. Comparison with the
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                                      protein is: 6.0, its MW TER 9 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PTM: Rubellidin 4.2 seems to differ fiterminal amidation.
MASS SPECTROMETRY: MW=883; METHOD=FAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE SPECIFICITY: Expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Rel. 30, Created)
(Rel. 30, Last seq
(Rel. 43, Last ann
      AA:
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                                                                                                                                                                                                                                                                                                                                                                                               Chordata;
Rodentia;
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Last annotation update)
2D-page of fibroblasts (
   MW.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2C2D77205AA72728 CRC64;
7E73EAB6D05B1AAB
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Pred. No. 1.4e
3; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                           Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   , Wallace J.C.;
e Australian buz
e skin peptides
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CRC64
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Rubellidin
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                                                                                      pI of this unknown
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                                                                                                                                                                                                            Selkirk
                                                                                                                                                                                                                                                                                                                                                                                           Murinae; Mus
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din 4.3
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Litoria
                                                                                                                                                                                                            J.K.;
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RESULT 10
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01-MAY-1992 (Rel. 22, Last sequence update)
01-MAR-2004 (Rel. 43, Last annotation update)
15-MAR-2004 (Rel. 43, Last annotation update)
Acylamino-acid-releasing enzyme (EC 3.4.19.1) (AARE) (hydrolase) (APH) (Acylaminoacyl-peptidase) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Luc
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus
                                                                                                                                         28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Bromohaptapeptide Im.
Conus imperialis (Imperial cone).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Anal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIINE=9222110; PubMed=1807161; Krishna R.G., Chin C.C.Q., Wold F.; "N-terminal sequence analysis of N alpha-acetylated proteins after unblocking with N-acylaminoacyl-peptide hydrolase.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACPH_RABIT
                                                                                                                                                                                                                                                                                                                  CONIM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR002471; Pept S9 AS.
PROSITE; PS00708; PRO_ENDOPEP_SER; PARTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -
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                                                                         Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
Neogastropoda; Conoidea; Conidae; Conus.
                                                                                                                                                                                                                                                                    BRHP_CONIM
P58803;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NON TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEROPS; S09.004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hydrolase;
       SEQUENCE, SYNTHESIS,
                                                      NCBI_TaxID=35631;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity nes 1; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. Biochem. 199:45-50(1991). It is biochem. 199:45-50(1991). This enzyme catalyzes the hydrolysis of the N-termina peptide bond of an N-acetylated peptide to generate an N-acetylated amino acid and a peptide with a free N-terminus. It preferentially cleaves off Ac-Ala, Ac-Met and Ac-Ser. CATALYTIC ACTIVITY: Acylaminoacyl-peptide + H(2)0 = acylamino acyl-peptide + H(2)0 = acylamino acylamino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUBCELLULAR LOCATION: Cytoplasmic. SIMILARITY: Belongs to peptidase family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RES
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Chordata; Craniata; Vertebrata; Euteleostomi;
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         AND MASS SPECTROMETRY
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Pred. No. 1.4e+05;
3; Mismatches 2;
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1; Mismatches
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RESULT 12
FAR5_HIRME
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Best Local S
Matches 2
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Best Local S
Matches 2
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MOD_RES
MOD_RES
SEQUENCE
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McIntosh J.M.;
'A novel post-translational modification involving bromination 'A novel post-translational modification involving bromination tryptophan. Identification of the residue, L.6-bromotryptophan, of the residue in the contribution of the contribution of the residue in the contribution of the residue in the contribution of the contribu
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Craig A.G., Jimenez B.C., Dykert J., Nielsen D.B., Gulyas J., Abogadie F.C., Porter J., Rivier J.E., Cruz L.J., Olivera B.M.,
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MOD_RES
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P06294;
01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence up
01-OCT-1994 (Rel. 30, Last annotation
Galactose oxidase inhibitor.
Dactylium dendroides (Cladobotryum der
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=92195954; PubMed=1686933; Evans B.D., Pohl J., Kartsonis M.A., Cala "Identification of RFamide neuropeptides Peptides 12:897-908(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hirudo medicinalis (Medicinal leech).
Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
Arhynchobdellida; Hirudiniformes; Hirudinidae; Hirudo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
FMRFamide-like neuropeptide GGKYMRF-amide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P42564;
01-NOV-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- TISSUE SPECIFICITY: Expressed by the venom
                                                                                                                                                                                                                                                                                                                                                                                                                       Neuropeptide; Amidation. MOD_RES 7 7
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                                                                                                                                                   DACDE
                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                  STANDARD;
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100.0%; Pr
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        (Cladobotryum dendroides)
                                                                                                                                                                                                                                                                                                                                                                                                      MW;
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                                                                                                                                                                                                                                                                                                                                                                                                        69D4068B53387810 CRC64;
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Pred. No. 1.4e
1; Mismatches
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Pred. No.
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BROMINATION.
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                                                                     update)
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                                                 update)
                                                                                                                                                                                                                                                                                                                                           1.4e+05;
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RESULT 14

UH11 RAT

UH11 RAT

ID UH11 RAT

OH11 RAT

AC P56576;

DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 15-DEC-1998 (Rel. 37, Last amoutation update)
DT 15-MAR-2004 (Rel. 43, Last amoutation update)
DT 15-MAR-2004 (Rel. 43, Last amoutation update)
DT 15-MAR-2004 (Rel. 43, Last amoutation update)
DT 15-MAR-2004 (Rel. 37, Last sequence update)
DT 15-MAR-2004 (Rel. 37, Last amoutation update)
DT 15-MAR-2004 (Rel. 37, Sequence update)
DT 15-DEC-1998 (Rel. 37, Iss MM is: 42 kDa.
DR 14 Li X.-P., Pleissner K.-P., Scheler C., Regitz-Zac Rel. 37, NON TER 2 2 0R A.
DR 15-DEC-1998 (Rel. 37, Iss MM is: 42 kDa.
DR 15-DEC-1998 (Rel. 37, Iss MM is: 42 kDa.
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DR 15-DEC-1998 (Rel. 37, Iss MM is: 42 kDa.
DR 15-DEC-1998 (Rel. 37, Iss MM is: 42 kDa.
DR 15-DEC-1998 
RESULT 15
AL17 CARMA
ID AL17 C
AC P81820
DT 30-MAY
DT 30-MAY
DT 30-MAY
DT Carcin
OC Eukary
OC Eumala
OC Eubrac
OX NCB1_T
RN [1]
RP SEQUEX
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Best Local S
Matches 2
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Best Local S
Matches 2
                                                                                                                                P81820;
P81820;
Created)
30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
Carcinustatin 17.
Carcinus maenas (Common shore crab) (Green crabaction of the common shore crabaction of the carcinus maenas (Common shore crabaction)
                                                                 Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura; Eubrachyura; Portunoldea; Portunidae; Carcinus.
                                               NCBI_TaxID=6759;
     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=Wistar; TISSUE=Heart;
Li X.-P., Pleissner K.-P., Scheler C., Regitz-Zagrosek V.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -!- FUNCTION: Binds one copper ion per molecule but doe galactose oxidase apoenzyme. It may inactivate the binding to its prosthetic copper group.

PIR; A01341; XEYDGD.

Copper; Metalloenzyme inhibitor.

SEQUENCE 7 AA; 706 MW; 75BB01A456D87DB0 CRC64;
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Fed. Proc. 31:447.447(1972).
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Best Local Similarity
                                                                                                            -!- FUNCTION: May act as a neurotransmitter or neuromodulator.
-!- SIMILARITY: Belongs to the allatostatin family.
Neuropeptide; Amidation; Multigene family.
MOD_RES 8 AMIDATION (POTENTIAL).
                                                                                                                                                                 "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas."; Eur. J. Blochem. 250:727-734(1997).
                                                                                                                                                                                                                   TISSUE=Cerebral ganglion, and Thoracic ganglion;
MEDLINE=98121193; PubMed=9461295;
Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
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01-OCT-2002 (TrEMBLrel.
01-OCT-2002 (TrEMBLrel.
01-OCT-2002 (TrEMBLrel.
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                                                                                                                                     SEQUENCE FROM N.A.

Kang H.S., Park Y.J., Jung H.M., Jun D.Y., Hul

"Characterization of TPA-responsive genes in t

differential display PCR.";

Submitted (JUL-2001) to the EMBL/GenBank/DDBJ
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01-DEC-2001 (TrEMBLrel. 19,
01-DEC-2001 (TrEMBLrel. 19,
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Mammalia; Eutheria;
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Catarrhini;
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Q1-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

PACCAD clade; Panicoideae; Andropogoneae; Zea.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=4577;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Collins M.S., Strong I., Alexander D.J.; "Evaluation of the molecular basis of pathogenicity of the Newcastle disease viruses termed 'pigeon PMV-1 viruses'.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A. MEDLINE=94175786; PubMed=8129624;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Viruses; ssRNA negative-strand viruses; Mononegavirales; Paramyxoviridae; Paramyxovirinae; Rubulavirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q80Н91;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Newcastle disease virus.
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                                                          Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                           Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Virol. 134:403-411(1994).
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                                                             Primates;
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Last annotation updat
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                                                          Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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DT 01-
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SEQUENCE FROM N.A.
TISSUE=Stomach canc
Slucka Z.
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Q9QVI5;
01-MAY-2000
01-MAY-2000
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SEQUENCE
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SENDIENCE FROM N.A., Morichika S., Yosniua
Chihata M., Shima M., Morichika S., Yosniua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15,
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NON_TER 9 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NON TER
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Homo sapiens (Human).
Eukaryota, Metazoa; Chordara; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthería; Primates; Catarrhini; Hominidae; Homo.
Biochem.
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Submitted (MAR-2000) to the
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                                                                                      "Simian sarcoma virus transformation is associated with markedly increased expression.";
                                                                                                                                                                                                                                                                                              NCBI_TaxID=10118;
                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                  MEDLINE=92028975;
Milner P.G.;
                                                                                                                                                                                                                                             SEQUENCE
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                                                                Biophys.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  (TrEMBLrel. 13, Created)
(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 21, Last annotation update)
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                                                                                                                                                                                                                 PubMed=1656977;
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                                                                                                                                                                                                                                                                                                                                                                                                                             (Fragment)
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0; Mismatches
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Pred. No. 1e+0
1; Mismatches
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Gastric Cancer.";
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Q42452;
01-NOV-1996
                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=CV MUSTANG;
Joshi C.P., Kluev N., Ng
Submitted (APR-1995) to
                                                                                             SEQUENCE
                                                                                                                                                                                                         EMBL; L41504; AAA64972.1; -. EMBL; L41503; AAA64971.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Spermatophyta; Magnoliophyta;
Triticeae; Triticum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Triticum aestivum (Wheat).
Eukaryota; Viridiplantae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Heat shock protein (
HSP266T1 OR HSP266G2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Heat shock protein (Fragment).
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Myoglobin (Fragment).
Myoglobin (Fragment).
Eopsaltria australis (eastern yellow robin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Neognathae; Passeriformes; Petroicidae; Eopsal
                                                                                                                         Heat shock.
                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=4565;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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01-NOV-1996
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                                                                                                                                                                          GO:0003773; F:heat shock protein
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                                                                                                                                                                                                                                                                                             Nguyen H.T.
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Yta; Liliopsida; Poales; Poaceae; Pooidea
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16;
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01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
                                                                                                                                                                                                           EMBL; U50932; AAC44474.1; GO; GO:0016301; F:kinase
                                                                                                                                                                                                                                                                            transport
                                                                                                                                                                                                                                                                                                               Sage A.E., Proctor W.D., Phibbs P.V.Jr.;
                                                                                                                                                                                                                                                                                                                               MEDLINE=96427344; PubMed=8830708;
                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. STRAIN=PAO1;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
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EMBL; X02518; CAA26355.1; -.

NON TER 9 9
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Bollschweiler C., Kuehn R., Klein
"Non-repetitive AT-rich sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Methanococcus voltae.
Archaea; Euryarchaeota; Methanococci; Methanococcales; Methanococcus.
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                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=287;
                                                                                                                                                                                                                                                                                                                                                                                                                           Pseudomonadaceae; Pseudomonas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pseudomonas aeruginosa
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P83530;
01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Unknown protein from 2D-page (Fragment).

Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco).

Bacteria; Firmicutes; Lactobacillales; Lactobacillus.

Lactobacillus.
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Q86SL0;
01-JUN-2003
01-JUN-2003
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Proteomics 2:765-774 (2002).
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Mammalia; Eutheria;
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MEDLINE=22615572; PubMed=12729892;
Moreno M.U., San Jose G., Orbe J.,
                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                            EMBL;
                                                                                                                                                                                                                                                                                                                                                                                               "Preliminary characterisation gene: identification of a new
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zalba G.
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Pred. No.
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Pred. No. 1e+06;
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Catarrhini;
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EMBL; AF249695; AAF79153.1;

EMBL; AF249692; AAF79150.1;

EMBL; AF249693; AAF79151.1;

EMBL; AF249694; AAF79152.1;
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STRAIN=RH, COUGAR TC751G34,
Lehmann T., Blackston C.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2000 (TrEMBLrel. 15, Last annotation update)
Dihydrofolate reductase thymidylate synthase (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q9N6M5
                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN-CV MUSTANG;
MEDLINE-96189275; PubMed-8605312;
Joshi C.P., Kumar S., Nguyen H.T.;
"Application of modified differential
                                                                                                                                                                                                                                Heat shock protein (Fragment).
HSP70C OR HSP70A OR HSP70B.
Triticum aestivum (Wheat).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidea
Triticeae; Triticum.
                                                                                                                                                                                                                                                                                                 Q42507;
01-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-JUN-2003 (TrEMBLrel. 24,
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Eukaryota; Alveolata;
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                                                                                                                    and sequencing of the 3' region for HSP70 gene family.";
Plant Mol. Biol. 30:641-646(1996).
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                                              71B2CB1B10532768 CRC64;
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## ALIGNMENTS

A;Cross-references: GB:L00022; GB:J000227; GB:V00555; NID:g185035
R;Ueda, S.; Nakai, S.; Nishida, Y.; Hisajima, H.; Honjo, T.
EMBO J. 1, 1539-1544, 1982
A;Title: Long terminal repeat-like elements flank a human immunoglobulin epsilon pseudoge A;Reference number: A23195; MUID:84207910; PMID:6327276
A;Accession: A23195 A;Molecule type: DNA
A;Residues: 2-428 <UED>
A;Cross-references: GB:J00222; NID:g184755
R;Zhang, K.; Saxon, A.; Max, E.E. A; Molecule type: DNA A; Residues: 1-428 < FLA> 밁 Ş A;Introns: 103/1; 209/1; 317/1 C;Superfamily: immunoglobulin C region; immunoglobulin homology R;Sakoyama, Y.; Hong, K.

Proc. Natl. Acad. Sci. U.S.A. 84, 1080-1084, 1987

A;Title: Nucleotide sequences of immunoglobulin epsilon

A;Reference number: 136948; MUID:87147196; PMID:3103123 Ig epsilon-chain - chimpanzee (fragment)
c;Species: Pan troglodytes (chimpanzee)
C;Date: 04-Oct-1996 #sequence\_revision 04-Oct-1996 #text\_change 21-Jan-2000 RESULT 1 I36948 A; Accession: A22771 F;336-405/Domain: immunoglobulin homology <IMM> A; Cross-references: GB:M15398; NID:g176797; PIDN:AAA35416.1; PID:g176798 A;Status: preliminary; translated from GB/EMBL/DDBJA;Molecule type: DNA RESULT 2 C; Genetics: A; Residues: 1-426 < RES> C; Accession: A; Accession: I36948 Best Matches Query Match Local Similarity les 9; Conserv 149 EDGQVMDVD 157 1 EDGQVMDVD 9 Conservative 100.0%; Score 47; DB 2 100.0%; Pred. No. 0.26; 0; Mismatches DB 2; 0 Length 426; Indels genes of chimpanzee and orangutar 0; Gaps 0,

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A;Molecule type: DNA
A;Residues: 320-428 <ZHA>
A;References: EMBL:X63693; GB:S38668; NID:g32987
B;Seno, M.; Kurokawa, T.; Ono, Y.; Onda, H.; Sasada, R.; Igarashi, K.; Kikuchi, M.; Suginucleic Acids Res. 11, 719-726, 1983
Nucleic Acids Res. 11, 719-726, 1983
A;Title: Molecular cloning and mucleotide sequencing of human immunoglobulin epsilon chap; Title: Molecular cloning and mucleotide sequencing of human immunoglobulin epsilon chap; Reference number: A93491; MUID:83168897; PMID:6300763
A;Accession: A93491
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A;Title: Two unusual forms of human immunoglobulin E encoded A;Reference number: PH1214; MUID:92308839; PMID:1613458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       J. Biol. Chem. 269, 456-462, 1994
A;Title: Complex alternative RNA splicing of epsilon-immunoglobulin transcripts produces
A;Reference number: A53116; MUID:94103254; PMID:8276835
A;Accession: A53116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: protein
A; Residues: 'GAWTL', 6, 'X', 8-16, 'B', 18-43, 'B', 45-52,55-92,95-97, 'B',99-121, 'B',123, 'L',12
A; Experimental source: myeloma protein Nd
A; Experimental source: myeloma protein Nd
R; Kenten, J.H.; Molgaard, H.V.; Houghton, M.; Derbyshire, R.B.; Viney, J.; Bell, L.O.; G
Proc. Natl. Acad. Sci. U.S.A. 79, 6661-6665, 1982
Proc. Natl. Acad. Sci. U.S.A. 79, 6661-6665, 1982
A; Title: Cloning and sequence determination of the gene for the human immunoglobulin eps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cell 29, 691-699, 1982
A;Title: Duplication and deletion in the human immunoglobulin epsilon A;Title: pMID:6288268
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A; Residues: 1-428 < SEN>
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A;Note: this sequence difference may be due to polymorphism R;Bennich, H.H.; Johansson, S.G.O.; Von Bahr-Lindstrom, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A, Title: Purification and characterization A, Reference number: S02438; MUID:88083554; A, Accession: S02438
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                                                                                                                                                                                                                                                                                                                                                                  Eur. J. Immunol. 23, 159-167, 1993
A;Title: Characterization of four novel epsilon chain mRNA
A;Reference number: A46536; MUID:93122085; PMID:8419166
A;Accession: C46536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R; Ikeyama, S.
FEBS Lett. 224, 306-310, 1987
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A;Residues: 1-40;68-114;427-428 <KEN>
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A;Accession: B93933
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A;Residues: 1-358,'L',360-428 <MAX>
A,Status: preliminary; not
A,Molecule type: mRNA
A;Residues: 382-391 <HE2>
A,Cross-references: GB:S55;
                                                                                                                                      A; Note: sequence extracted A; Accession: D46536
                                                                                                                                                                                                    A;Cross-references: GB:S55273; NID:g263166; PIDN:AAB24857.1; PID:g263167
A;Experimental source: B cell myeloma U-266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Note: sequence
R;Hellman, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Experimental source: myeloma U266-derived cell line AF-10
A;Note: sequence extracted from NCBI backbone (NCBIN:141701, NCBIP:141702)
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A;Residues: 320-428 <ZH2>
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A;Residues: 382-426 <HEL>
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          GB:S55276; NID:g263168; PIDN:AAB24858.1; PID:g263169
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                 hypothetical protein T16K5.160 - Arabidopsis thalia C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 C;Accession: T46047
                                                                                                                                                   RESULT 4
T46047
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F;128-195/Domain: immunoglobulin homology <IM2>
F;232-301/Domain: immunoglobulin homology <IM3>
F;338-407/Domain: immunoglobulin homology <IM3>
F;338-407/Domain: immunoglobulin homology <IM3>
F;134/Disulfide bonds: interchain (to light chain) #status predicted
F;15-105,29-85,135-193,239-299,345-405/Disulfide bonds: #status predicted
F;21,49,99,146,252,275/Binding site: carbohydrate (Asn) (covalent) #status
F;121,209/Disulfide bonds: interchain (to heavy chain) #status predicted
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A;Map position: 14q32.33-14q32.33

A;Matposition: 11q32.33-14q32.33

A;Introns: 1/1; 104/1; 319/1

G;Complex: An immunoglobulin heterotetramer subunit consists of two identical light (k C;Complex: An immunoglobulin heterotetramer subunit consists of two identical light (k C;Complex: An immunoglobulin cases, such as IgA and IgM, the subunits associate into hain disulfide bonds. In some cases, such as IgA and IgM, the subunits associate into C;Superfamily: immunoglobulin C region; immunoglobulin C 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:S53497; NID:g263162; PIDN:AAB24855.1; A;Experimental source: B cell myeloma U-266 A;Note: sequence extracted from NCBI backbone (NCBIP:123483)
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A;Note: sequence extracted from NCBI backbone (NCBIP:125299)
A;Accession: A46536
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Leithauser, B.; Keller, K.; Cruz, R.; Danson, M.J.; Hough, Jung, K.H.; Alam, M.; Freitas, T.

Proc. Natl. Acad. Sci. U.S.A. 97, 12176-12181, 2000

A;Authors: Hou, S.; Daniels, C.J.; Dennis, P.P.; Omer, A.D.;

A;Title: Genome sequence of Halobacterium species NRC-1.

A;Reference number: A84160; MUID:20504483; PMID:11016950

A;Accession: G84322
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Date: 02-Feb-2001 #sequence_revision
C;Accession: G84322
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C; Superfamily:
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A; Residues: 1-118 <STO>
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Best Local S
Matches 7
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59
                                                                            1 EDGQVMDVD 9
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77.8%;
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Pred. No.
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Pred. No. 0.26;
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                                                                                                                                                                                                                                              Length 118;
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                                                                                                                                                                          Indels
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G.; Jablor
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Arabidopsis thaliana

#text\_change 04-Feb-2000

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probable transcription regulator Cj0466 [imported] - Campylobacter jejuni (strain NCTC 1 C;Species: Campylobacter jejuni (C;Species: Campylobacter jejuni C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 03-Jun-2002 C;Accession: B81391
R;Parkhill, J; Wren, B.W.; Mungall, K.; Ketley, J.M.; Churcher, C.; Basham, D.; Chillin C.W.; Quail, M.; Rajandream, M.A.; Rutherford, K.M.; VanVliet, A.; Whitehead, S.; Barrel Nature 403, 665-668, 2000
A;Title: The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hypa;Reference number: A81250; MUID:20150912; PMID:10688204
A;Reference number: A81250; MUID:20150912; PMID:10688204
A;Retaus: preliminary A;Rocession: E81391
A,Status: preliminary A;Rocession: E81391
A,Status: preliminary A;Rocession: SPAR>
A;Cross-references: GB:AL139075; GB:AL111168; NID:g6967817; PIDN:CAB75104.1; PID:g696793
A;Experimental source: serotype O2, strain NCTC 11168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RiNierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J. B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon n, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M. Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001

A;Title: Complete Genome Sequence of Caulobacter crescentus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
""" 6; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     threonyl-tRNA synthetase [imported] - Caulobacter crescentus c;Species: Caulobacter crescentus C;Decies: Caulobacter crescentus C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 10-May-2001 C;Accession: G87306
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C;Superfamily: threonine-tRNA ligase
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A;Cross-references: EMBL:AL132965
A;Experimental source: cultivar Columbia; BAC clone T16K5
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A; Residues: 1-655 <STO>
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A;Accession: G87306
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A; Accession: T46047
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Similarity 75.0%;
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75.0%;
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R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Wata Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yas DNA Res. 8, 205-213, 2001
A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing A;Reference number: AB1807; MUID:21595285; PMID:11759840
A;Accession: AI2336
    hypothetical protein B1D1.160 C; Species: Neurospora crassa
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                                                                                                                                                                                                                                                                                 A;Experimental source: strain C;Genetics: A;Gene: all4248
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                                                                                                                                                                                                                                                                                                                       A;Cross-references: GB:BA000019; PIDN:BAB75947.1; A;Experimental source: strain PCC 7120
                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-846 < KUR >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primosomal protein N' [imported] - Nostoc sp. (strain PCC 7120)
C;Species: Nostoc sp. PCC 7120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
E69160
                                            T49362
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A;Reference number: A69000; MUID:98037514; PMID:9371463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein MTH462 - Methanobacterium thermoautotrophicum (strain Delta H) C;Species: Methanobacterium thermoautotrophicum C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 22-Oct-1999 C;Date: 05-Dec
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Pred. No. 23;
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    Neurospora crassa

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09-Dec-2002
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RESULT 11
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C;Accession: T4936.
R;Schulte, U:, Aign, V.; Hoheisel, J.; Brandt, P.; Fartmann, B.; Holland, R submitted to the Protein Sequence Database, May 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Gene: CESP:K07E12.1
A;Gene: CESP:K07E12.1
A;Introns: 46/3; 85/2; 201/1; 278/2; 470/2; 817/1; 927/1; 960/3; 1265/1; 1322/1; 1478/3;
E 6014/3; 6159/3; 6665/2; 7266/3; 7895/3; 8669/3; 8726/3; 9803/3; 10937/3; 12234/2; 1229
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A;Cross-references: EMBL:U00054; NID:g485140; PID:g485141; PIDN:AAA50715.1; CESP:K07E12
A;Experimental source: strain Bristol N2
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A;Residues: 1-1275 <SCH>
A;Residues: 1-1275 <SCH>
A;Cross-references: EMBL:AL355927; GSPDB:GN00116; NCSP:BID1.160
A;Experimental source: BAC clone B1D1; strain OR74A
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A;Accession: T49362
                                                                                                                                                            R;Finan, T.M.; Weidner, S.; Wong, K.; Buhrmester, J.; Chain, P.; Vorholter, F.J.; Hernan Proc. Natl. Acad. Sci. U.S.A. 98, 9889-9894, 2001
A;Title: The complete sequence of the 1,683-kb pSymB megaplasmid from the N2-fixing enda A;Reference number: A95842; MUID:21396508; PMID:11481431
A;Accession: C95882
                                                                                                                                                                                                                                                                                 probable transcription regulator protein [imported] - Sinorhizobium meliloti
C;Species: Sinorhizobium meliloti
C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 30-Sep-2001
C;Accession: C95882
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A; Accession: T16580
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A;Experimental source: strain 1021, megaplasmid pSymB
R;Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola,
pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Fe
                                                                                                                  A;Status: preliminary
A;Molecule type: DNA
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                                                                         A;Residues: 1-203 <KUR>
A;Cross-references: GB:AL591985; PIDN:CAC48723.1; PID:g15140196; GSPDB:GN00167
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                             P.; Ampe,
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       F.; Barloy-Hubler,
N.A.; Fisher, R.F.
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R.Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, Chin, C.W.; Chung, M.K.; Conm, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; ansen, N.F.; Hughes, B.; Huzar, L. Mature 408, 816-820, 2010

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Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A; Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, Rer, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A; Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.

A; Accession: D96531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      L.; Hyman, R.W.; Jones, T. Science 293, 668-672, 2001
Science 293, 668-672, 2001
A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K.(A;Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A;Reference number: A96039; MUID:21368234; PMID:11474104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hypothetical protein F13F21.9 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31-Mar-2001 C;Accession: D96531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Genome: plasmid
                                                                                                                                                                                    A;Gene: F13F21.9
A;Map position: :
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                                                                                                                                                                                                                                    C; Genetics:
                                                                                                                                                                                                                                                             A; Cross-references:
                                                                                                                                                                                                                                                                                                         A; Molecule type: DNA
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Best Local S
Matches 5
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136 DDGEVVDMD 144
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38;
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Maiti, R.; Marziali,
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RESULT 13

A; Residues: PL264 < KUR>
A; Residues: 1-264 < KUR>
A; Cross-references: GB: AL445566; PID: g14089599; PIDN: CAC13359.1;
A; Cross-references: Strain UAB CTIP R;Chambaud, I.; Heilig, R.; Ferris, S.; Barbe, V.; Samson, D.; (Nucleic Acids Res. 29, 2145-2153, 2001
A;Title: The complete genome sequence of the murine respiratory A;Reference number: A99512; MUID:21267165; PMID:11353084
A;Accession: B90535 hypothetical protein MYPU\_1860 [imported] - Mycoplasma pulmonis (strain UAB C;Species: Mycoplasma pulmonis C;Date: 24-May-2001 #sequence\_revision 24-May-2001 #text\_change 03-Aug-2001 C;Accession: B90535 A;Experimental source: C;Genetics: A;Gene: MYPU\_1860 A; Status: preliminary D.; Galisson, F.; Moszer, pathogen GSPDB:GN00153 Mycoplasma CTIP pulmo

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R;Ng, W.V.; Kennedy, S.D.; Mahairas, G.G.; Berquist, B.; Pan, M.; Shukla, H.D.; Lasky, g.; Leithauser, B.; Keller, K.; Cruz, R.; Danson, M.J.; Hough, D.W.; Maddocks, D.G.; Jablc Jung, K.H.; Alam, M.; Freitas, T.

Proc. Natl. Acad. Sci. U.S.A. 97, 12176-12181, 2000
A;Authors: Hou. S.; Daniels, C.J.; Dennis, P.P.; Omer, A.D.; Ebhardt, H.; Lowe, T.M.; Li A;Reference number: A84160; MUID:20504483; PMID:11016950
Search completed: August 23, 2004, 10:40:37 Job time : 41 secs
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                                                                                                                                                                                                                                                                        A;Gene: lig
C;Superfamily: DNA ligase
                                                                                                                                                                                                                                                                                                                           A;Molecule type: DNA
A;Restdues: 1-561 <STO<sub>></sub>
A;Cross-references: GB:AE004437; NID:g10580445; PIDN:AAG19323.1; GSPDB:GN00138
C;Genetics:
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G84244

DNA ligase [imported] - Halobacterium sp. NRC-1

C;Species: Halobacterium sp. NRC-1

C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 16-Feb-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson; Pleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, B.F. Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L. Nature 390, 364-370, 1997
A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S. Smith, H.O.; Woese, C.R.; Venter, J.C.
A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaed A;Reference number: A69250; MUID:98049343; PMID:9389475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-286 <KLE>
A;Cross-references: GB:AE001093; GB:AE000782; NID:g2689416; PIDN:AAB91050.1; PID:g265046
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 14
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wes 6; Conserv
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                                                                                            497
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Similarity 55.6%;
5; Conservation
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Pred. No. 1.2e+02;
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Pred. No. 49;
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Aab49428	Aab03468	Aay30292	AdW40838	**************************************	Aaw1 5176	Aae25317	Adc81368	Aaw63724	Add90448	Abj20192	Abj13305	Abj13116	Aay61788	Haytoubb	30000	Aav00372	Aay61785	Adc81362	C766/11/04	1,50000	Aau81643	Aay61779
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## Epitope; mimotope; human; immunoglobulin E; IgE; C-epsilon-2 domain; allergic disease; immunoprophylaxis; immunotherapy; antiallergic; immunosuppressive; vaccine; histamine release inhibitor; immunogen; Homo sapiens. allergy; atopy. IGE C-epsilon-2 domain surface exposed epitope peptide P1 SEQ ID NO:1. 05-JAN-2001 AAB25907; AAB25907 standard; peptide; (first entry) 9 A

ALIGNMENTS

RESULT 1
AAB25907
ID AAB2
XX AAB2
AC AAB2
XX BPit
AC BPit
KW EDit
KW Alle
KW Alle
KW Alle
KW Alle
CXX WO20
PU WO20
AX AC AC
PU WO20
AX AC
PU WO20
AX AC
PO 31-A
AX
AC
PR 22-F
PR 22-F
PR 22-F
PR 22-F
PR 22-F
PR 07-A
PR 07-A 25-FEB-1999 29-MAR-1999 07-MAY-1999 07-MAY-1999 07-AUG-1999 07-AUG-1999 07-SEP-1999 07-SEP-1999 07-SEP-1999 29-OCT-1999; 23-NOV-1999; 22-FEB-2000; 2000WO-EP001455 31-AUG-2000 WO200050460-A1. 99GB-00018594. 99GB-00018603. 99GB-00021046. 99GB-00021047. 99GB-00025619. 99GB-00027698. 99GB-00007151. 99GB-00010537. 99GB-00010538. 99GB-00004405

Dyson M, F: Randall R, (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS. PEPTIDE THERAPEUTICS LTD. Friede M, Greenwood J, Hewitt E, Lamont A, Mason S; Turnell WG, Van Mechelen MP, Vinals Y De BassolsC;

WPI; 2000-572073/53.

Peptides useful for treating, preventing and ameliorating allergic diseases, comprising an isolated surface exposed group of a specific domain from immunoglobulin  ${\tt E}$ .

Claim 2; Page 5; 129pp; English.

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RRESULT 2
AAB2086
XX
AAB2087
XX
AAB208
XX
XX
AAB2
DT 03-J
DT 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC The present invention describes a peptide (I) comprising an isolated curface exposed group/epitope (EI) of c-psilon-2 domain (D) of immunogen (II) for treating allergy comprising (I); (2) a vaccine (III) cor treating allergies comprising (II); (3) a ligand (IV) capable of CC recognising EI; (4) a pharmaceutical composition (PC) comprising (IV); (6) an immunogen (III) and (CC (S) a peptide (Ia) capable of being recognised by (IV); (6) an immunogen (CC (S) a peptide (Ia) capable of being recognised by (IV); (6) an immunogen (CC (III) comprising (IA); and (7) producing (III) by producing (II) can CC vaccine and histamine release inhibitor. (I), (II) and (III) are useful cin medicine and in the manufacture of medicaments for treating and perception (CC (I) is useful in diagnostics and in the affinity purification of CC (I) is useful in diagnostics and in the affinity purification of CC circulating apatient susceptible to or suffering from allergies. (IV) is also useful in diagnosing atopy. AAB25907 to AAB26099 represent construction of the present construction.
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Best Local S
Matches 9
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25-FEB-1999;
25-FEB-1999;
13-AUG-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protozoacide; Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunoglobulin E; IgE; immunogenic; immunogen; Protein D; carrier;
prostate cancer; Haemophilus influenzae; vaccine; infectious disea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB20867;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            malaria; cytostatic; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunoglobulin E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200050077-A1
                                                                                                                                        Immunogens and vaccine comprising the immunogen useful for preventing and treating infectious diseases e.g. malaria and chronic disease e.g. cancer, comprises peptide and carrier from protein D of influenzae.
                                                                                                                                                                                                                                                                     WPI; 2000-572040/53
                                                                                                                                                                                                                                                                                                                              Coste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-FEB-2000; 2000WO-EP001457.
                                                                                                                                                                                                                                                                                                                                                                                   (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS
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9; Conserv
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ilarity 100.0%;
Conservative 0
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99GB-00004408.
99GB-00004412.
99GB-00019260.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          epitope immunogenic peptide
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                                                                                                                                                                                                                                                                                                                              Van-Mechelen MP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
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Pred. No. 1.4e+06;
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                                                                                                                                                                                                                                                                                                                                    Verriest
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The present invention describes an immunogen (I) comprising a (Ia) and a carrier (Ib) derived from protein D of Haemophilus

peptide influenzae

Best Local Similarity
Matches 9; Conserv

Conservative

100.0%; S 100.0%; F tive 0;

Score 47; DB 4; Pred. No. 1.4e+06; Mismatches 0;

Length

Indels

<u>,</u>

Gaps

0;

Query Match

Sequence 9

AA;

Claim 9;

Page

37;

53pp;

English

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RESULT 3
AAB51023
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            excipient; (2) preparation of (1), comprising conjugating a peptide to protein D or its fragment; and (3) preparation of a vaccine of (1), comprising formulating (I) with an excipient. (I) has cytostatic, and the vaccine are useful for the manufacture of a medicament for preventing and treating infectious diseases such as malaria or chronic disease such as cancer, Alzheimer's disease or allergy in a patient. Unlike prior art immunogens, (I) induces high levels of antipeptide immune responses while inducing a moderate humoral response against the carrier. The present sequence represents a specifically claimed immunoglobulin E (IgE) epitope immunogenic peptide sequence, which can be used in an immunogen of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 9 AA;
                         The present invention relates to a composition comprising allergy peptides linked by an inert carrier. The allergy peptides are derived from Immunoglobulin E (IgE) or IgE receptor. The present peptide is or such peptide from IgE. The composition is useful as a vaccine or for manufacturing a medicament for the prophylaxis or treatment of allergy In particular, for boosting an anti-allergy immune response in an individual susceptible to an allergic response
                                                                                                                                                                      New vaccine comprising allergy peptides linked by an inert carrier, useful for boosting an anti-allergy immune response in an individual susceptible to an allergic response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vaccine; immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IgE peptide #1.
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                                                                                                                                                                                                                                     WPI;
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                                                                                                                                                                                                                                                                                                                                                                                   14-DEC-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Mammalia.
                                                                                                                                                                                                                                                                                                                         08-JUN-1999;
                                                                                                                                               Claim 5; Page 20; 26pp; English.
                                                                                                                                                                                                                                                                                            (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
                                                                                                                                                                                                                                     2001-091150/10
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Pred. No. 1.4e+06;
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RESULT
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                                                                                                                                                                                              Matches
                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to linkage methodology for use in the conjugation of compounds (e.g. peptides) to carrier vehicles (e.g. macromolecules, polymers, dendrimers, proteins) to produce biological and immunological constructs. The invention provides a method for linking an pharmaceutical composition or a vaccine. The invention describes peptides derived from or mimotopes of the Cepsilon2, Cepsilon3 or Cepsilon4 regions of human immunoglobulin E (IgE) which are used to produce conjugated compounds. The compounds or compositions of the invention are useful in the manufacture of a medicament for the treatment of IgE mediated diseases. The invention allows for controlled conjugation of a macronic of the invention of a mediated diseases. The invention allows for controlled conjugation of a mediated diseases. The invention allows for controlled conjugation of a mediated diseases.
                                                                                                                                                                                                                                                                                                                                                                             peptide epitope (antigen) to a protein so as to form an immunogenic conjugate which may be able to raise a protective antibody response in animal or human patient. AAU16632-AAU16913 represent peptides derived from or mimotopes of the Cepsilon2/Cepsilon3/Cepsilon4 region of human
                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A linkage comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; linkage technology; conjugated compound; carrier vehicle; epitope; Cepsilon2; Cepsilon3; Cepsilon4; immunoglobulin E; IgE mediated disease; antibody response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 21; 48pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mediated diseases.
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22-FEB-2000; 2000GB-00004096.
22-AUG-2000; 2000GB-00020707.
22-AUG-2000; 2000GB-00020707.
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                                                                                                                                                                                              Similarity 9; Conserv
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SMITHKLINE BEECHAM BIOLOGICALS.
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                                                                           EDGOVMDVD 9
                                                                                                                                 EDGQVMDVD
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                                                                                                                                                                               Score 47; DB 4; Pred. No. 1 4e+06; matches 0;
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RESULT 6
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ID ADE1
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Best Local :
                                                                                                                                                                                                            hepatitis B infection; T-cel stimulator; B-cell epitope
                                                                                                                                                                                                                              hepatotropic; virucide; antiinflammatory; chronic hepatitis; vaccine; recombinant hepatitis B_core chimeric protein; HBc chimeric protein;
                                                                                                                                                                                                                                                                                                         Chimeric hepatitis B virus related B-cell epitope seqid 127
                       21-FEB-2003; 2003US-00372076
                                                                                                                      US2003198645-A1
                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                       29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                        ADE10893;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to conjugates suitable for use in vaccines, where the conjugate comprises a disulphide bridge cyclised peptide and an immunogenic carrier. The vaccines can be used in the treatment of allergies. The present sequence is a peptide immunogen derived from human immunoglobulin B (IgB) suitable to be cyclised and used in the invention
                                                                        23-OCT-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADE10893 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page 9; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conjugate for use in vaccine for t disulfide bridge cyclized peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-489648/52.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          administering to a patient a T cell-stimulating amount of a vaccine comprising immunogenic particles dissolved or dispersed in a diluent, where the immunogenic particles consists of recombinant hepatitis B core
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21-FEB-2002; 2002US-00082014.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cytotoxic T lymphocyte; CTL; tumour; antigen presenting cell; allergy; lupus; autoimmune disease; rheumatoid arthritis; autoimmune nephritis; psoriasis; APC; multiple sclerosis; autoimmune thyroiditis; hay fever; inflammatory bowel disease; insulin dependent diabetes; cell therapy; Crohn's disease; allergic rhinitis; graft versus host disease; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human immunoglobulin E (IgE)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        psoriasis; APC; multiple sclerosis; autoimmune thyroiditis; hai inflammatory bowel disease; insulin dependent diabetes; cell the Crohn's disease; allergic rhinitis; graft versus host disease; transplant rejection; human; immunoglobulin E; IgE.
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                                                         WPI; 2003-120673/11
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                                                                                                                        Jackson
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Producing cytotoxic T lymphocytes for treating e.g. autoimmune diseases,

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RESULT 8
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                                                                            Dyson M,
Randall
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29-OCT-1999;
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07-MAY-1999
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Turnell
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                                                                                                                                                                                                                                         99GB-00025619
99GB-00027698
                                                                                                                                                                                                                                                                                                                                                                                                                           99GB-00010537
                                                                                                                                                                                                                                                                                                                                                                                                                                                    99GB-00007151
                                                                                                                                                         THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                     -00010538
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100.0%;
                                                                            Greenwood J, WG, Van Meche
                                                                                  Van Mechelen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                  Hewitt E, Lamont
len MP, Vinals Y I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.4e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                     De BassolsC;
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RESULT 9
AAU16648
ID AAU1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        surface exposed group/spitope (E1) of C-epsilon-2 domain (D) of C immunoglobulin E (IgE), or its mimotope. Also described are: (1) an CC immunogen (II) for treating allergy comprising (I); (2) a vaccine (III) Cf or treating allergies comprising (II); (3) a ligand (IV) capable of CC (Is) compising E1; (4) a pharmaceutical composition (PC) comprising (IV); (5) a peptide (Ia) capable of being recognised by (IV); (6) an immunogen CC (IIa) comprising (Ia); and (7) producing (III) by producing (III) can CC have antiallergic and immunosuppressive activities, and can be used as a CC constitution and inthe manufacture of medicaments for treating and CC preventing allergies. (IV) is useful for identifying mimotopes of P1, in CC (I) is useful in diagnostics and in the affinity purification of CC circulating anti-IgE antibodies from blood. (I), (III) and PC are useful CC is also useful in diagnosing atopy. AAB25907 to AAB26099 represent CC invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                         WPI; 2001-521967/57.
                                                                                                                      21-DEC-1999; 99GB-00030233.
22-FEB-2000; 2000GB-00004096.
22-AUG-2000; 2000GB-00020707.
22-AUG-2000; 2000GB-00020708.
                                                                                 (ACAM-)
                                                                                                                                                                                              21-DEC-2000; 2000WO-GB004935
                                                                                                                                                                                                                                                      WO200145745-A2
                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                           antibody response.
                                                                                                                                                                                                                                                                                                                                  Human; linkage technology; conjugated compound; carrier vehicle; epitope Cepsilon2; Cepsilon3; Cepsilon4; immunoglobulin E; IgE mediated disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                            AAU16648;
                                                                                                                                                                                                                           28-JUN-2001.
                                                                                                                                                                                                                                                                                                                                                                                   Peptide P15s
                                                                                                                                                                                                                                                                                                                                                                                                               07-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAU16648 standard; peptide; 7 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   domain from immunoglobulin E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       diseases,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Peptides useful for treating, preventing diseases, comprising an isolated surface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                 sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention describes a peptide (I) comprising an face exposed group/epitope (E1) of C-epsilon-2 domain (D)
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                                                                                ACAMBIS RES LTD
SMITHKLINE BEECI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QVMDVD 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 35; 129pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                            derived as mimotope of Cepsilon2 region of human
                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                    н
                                                                                BEECHAM BIOLOGICALS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63.8%; Score 30; DB
100.0%; Pred. No. 1.
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              63.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.4e+06;
thes 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and ameliorating allergic exposed group of a specific
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                                                                                                                                                                                                                                                                                                                                                                            IgE
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A linkage comprising an

immunogenic conjugate useful treatment

of.

ΙgΕ

immunogenic carrier. The vaccines can be used in the treatment allergies. The present sequence is a peptide immunogen derived immunoglobulin E (IGE) suitable to be cyclised and used in the

from human

The present invention relates to conjugates suitable for use in vaccines, where the conjugate comprises a disulphide bridge cyclised peptide and an immunogenic carrier. The vaccines can be used in the treatment of

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RESULT 10
ABJ00227
ID ABJ00027
AC ABJ00027
AC ABJ000
XX ABJ000
XX Inmun
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XX Inmun
XX ION
DD 102-SE
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                                                                                                                                                                                                                                                    Claim 4;
                                                                                                                                                                                                                                                                                                                            Conjugate
disulfide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Friede M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to linkage methodology for use in the conjugation of compounds (e.g. peptides) to carrier vehicles (e.g. macromolecules, polymers, dendrimers, proteins) to produce biological and immunological constructs. The invention provides a method for linking an epitope (e.g. a peptide) to a carrier (e.g. a protein) for use in a pharmaceutical composition or a vaccine. The invention describes peptides derived from or mimotopes of the (Cepsilon2, Cepsilon3 or Cepsilon4 regions of human immunoglobulin E (IgE) which are used to produce conjugated compounds. The compounds or compositions of the invention are useful in the manufacture of a medicament for the treatment of IgE mediated diseases. The invention allows for controlled conjugation of anothers of antiran in the manufacture of a medicament for the treatment of IgE mediated diseases. The invention allows for controlled conjugation of a mention when the controlled conjugation of the controlled controlled conjugation of the controlled controlled controlled controlled cont
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200216409-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vaccine; antiallergic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human IgE immunogenic peptide SEQ ID NO: 11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABJ00227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABJ00227 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 7 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mediated diseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PEPTIDE THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMITHKLINE BEECHAM BIOLOGICALS.
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                                                                                                                                                                                                                                                                                                                     for use in vaccine for t
bridge cyclized peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mason S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; IgE; immunoglobulin E; allergy; thio-ether linkage;
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                                                                                                                                                                                                                                            45pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Turnell WG,
                                                                                                                                                                                                                                                English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0,
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Pred. No.
                                                                                                                                                                                                                                                                                                                 treatment of allergy, cone and immunogenic carrier
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1.4e+06;
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Sequence 7 AA;

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QVMDVD 6

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AABSSOUT 1

AABSSOUT 1

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AC AABSSO XX 28-MJ

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AC Cytot MW Cytot MW Cytot MW Cytot MW Confill MW Cytot MW Confill MW Cytot M
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                                                                                      Query Match
Best Local S
Matches 6
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                                                                                                                                                                                                                                                            The invention relates to a method of producing cytotoxic T lymphocytes (CTLs) specific for one or more non-tumour self antigen T cell epitopes. The method involves loading antigen presenting cells (APCS) having class I major histocompatibility complex molecules with the T cell epitopes, and culturing the CD8+ T cells with the APCS to activate precursor CD8+ T cells specific for the T cell epitopes. The invention is useful for treating autoimmune disease including rheumatoid arthritis, psoriasis, lupus, autoimmune enphritis, multiple sclerosis, autoimmune thyroiditis, insulin dependent disease, Crohn's disease, inflammatory bowel disease, graft versus host disease and transplant rejection and/or allergic disease such as food allergy, hay fever, allergic rhinitis, allergic asthma and venom allergy. The invention is also useful in cell therapy. The present sequence is human immunoglobulin E (IgE) HLA-A2 peptide motif. This peptide is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytotoxic T lymphocyte; CTL; tumour; antigen presenting cell; allergy; lupus; autoimmune disease; rheumatoid arthritis; autoimmune nephritis; psoriasis; APC; multiple sclerosis; autoimmune thyroiditis; hay fever; inflammatory bowel disease; insulin dependent diabetes; cell therapy; Crohn's disease; allergic rhinitis; graft versus host disease; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Producing cytotoxic T lymphocytes for treating e.g. autoimmune diseases, comprises culturing CD8+ T cells with antigen presenting cells to activate precursor CD8+ T cells specific for T the cell epitopes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human immunoglobulin E (IgE) HLA-A2 peptide motif #14.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         transplant rejection; human; immunoglobulin E; IgE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 3; Col 47; 49pp; English.
                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ORTH )
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                                                                                      l Similarity
6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORTHO-MCNEIL PHARM INC.
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QVMDVD
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                                                                                      63.8%; Scu
100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                         Score 30; DB 6; L; Pred. No. 1.4e+06; 0; Mismatches 0;
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hes 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kong Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 7;
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RESULT 12
AABI4481
IID AABI4
XX AABI4
XX OPlog
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RESULT 13
ABJ12821
ID ABJ12
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AC ABJ12
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AC ABJ12
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TO-DE
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to polynucleotide encoding secretional luciferase derived from deep sea luminous shrimp (Oplophorus gracilirostris). The luciferase protein is composed of 19 and 35 kDa proteins and is useful as a reporter enzyme. Antibodies against luciferase and oligonucleotides derived from luciferase polynucleotides are useful for identification of novel luciferase or photoproteins from related species. The present sequence is a peptide from 35 kDa subunit of Oplophorus gracilirostris luciferase. (Updated on 07-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oplophorus gracilirostris luciferase 35 kDa subunit peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAE14481;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Luciferase; deep sea luminous shrimp; decapoda; reporter enzyme;
35 kDa subunit; photoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-AUG-2003
26-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 4; Page 11; 35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  useful as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel secretional luciferase derived from the deep sea luminescent shrimp Oplophorus gracilirostis consists of 19kDa and 35 kDa subunits and is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-084319/12.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 7 AA;
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                                                          bladder cancer;
                                                                                                                                                   Human
                                                                                                                                                                                                             10-DEC-2002
                                                                                                                                                                                                                                                                    ABJ12821;
                                                                                                                                                                                                                                                                                                                               ABJ12821 standard; peptide; 9 AA
                                                                                         Human; 125P5C8;
                                                                                                                                                125P5C8 epitope #1447.
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                                                                                                                                                                                                             (first entry)
                                                       cancer; cytostatic; breast cancer;
kidney cancer; colon cancer; ovaria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            59.6%;
71.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 28;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.4e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 5;
                                                             ancer; prostate cancer; ovarian cancer; epiton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 7;
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RESULT 14
AAE35101
ID AAE35
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Best Local S
Matches 5
                                                                                                                                                                                     Cytotoxic T lymphocyte; CTL; tumour; antigen presenting cell; allergy; lupus; autoimmune disease; rheumatoid arthritis; autoimmune nephritis; psoriasis; APC; multiple sclerosis; autoimmune thyroiditis; hay fever; inflammatory bowel disease; insulin dependent diabetes; cell therapy; crohn's disease; altergic rhinitis; graft versus host disease; asthma;
                                                          15-MAY-2001;
                                                                                13-MAY-2002; 2002WO-US015341
                                                                                                                                   WO200292773-A2
                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to compositions comprising a substance the modulates the status of 12595(8 or a molecule that is modulated by 12595(8. The status of a cell that expresses 12595(8 is modulated. The composition is useful for treating cancer, particularly prostate, bladder, kidney, colon, ovary or breast cancer. The 12595(8 protein and/or a nucleotide sequence encoding the protein is useful for immunising a mammal against cancer. The present sequence is a 12595(8 epitope shown in the exemplification of the invention
                                                                                                          21-NOV-2002
                                                                                                                                                                                                                                                                       Human immunoglobulin E
                                                                                                                                                                                                                                                                                                                                              AAE35101 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New composition comprising a substance that modulates the status of 125P5C8 gene or a molecule that is modulated by 125P5C8, useful for treating or preventing cancer that expresses or over expresses 125P5C8
                                 (ORTH ) ORTHO-MCNEIL PHARM INC
                                                                                                                                                                                                                                                                                                 28-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 9 AA;
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          Jackson MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity 5; Conserv
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                                                                                                                                                                                   rejection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                         2001US-0291300P.
                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Morrison
                                                                                                                                                                                                                                                                                                                                              peptide;
       Peterson PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      59.6%;
                                                                                                                                                                               human; immunoglobulin E; IgE.
                                                                                                                                                                                                                                                                   (IgE)
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Jakobovits A;
                                                                                                                                                                                                                                                                  HLA-A2 peptide motif #39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 28; DB 5;
Pred. No. 1.4e+06;
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     Kong
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     J,
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RESULT 15
ABG67564
ID ABG67564
AC ABG675
AC ABG67
AC ABG6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a method of producing cytotoxic T lymphocytes (CTLs) specific for one or more non-tumour self antigen T cell epitopes. The method involves loading antigen presenting cells (APCs) having class I major histocompatibility complex molecules with the T cell epitopes. To and culturing the CD8+ T cells with the APCs to activate precursor CD8+ T cells specific for the T cell epitopes. The invention is useful for treating autoimmune disease including rheumatoid arthritis, psoriasis, clupus, autoimmune nephritis, multiple sclerosis, autoimmune thyroiditis, insulin dependent diabetes, Crohn's disease, inflammatory bowel disease, insulin dependent disease and transplant rejection and/or allergic disease such as food allergy, hay fever, allergic rhinitis, allergic classates such as food allergy, hay fever, allergic rhinitis, allergic masthma and venom allergy. The invention is also useful in cell therapy. The present sequence is human immunoglobulin E (IgE) HLA-A2 peptide motif. This peptide is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local
                                                                                                                                 Screening, diagnosis or prognosis of Alzheimer's disease in subject, comprises detecting Alzheimer disease-associated features or Alzheimer disease-associated protein isoforms in brain tissue from the subject.
                                                                                  Claim 7; Page 58; 427pp; English
                                                                                                                                                                                                                                                                                                                                     Herath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alzheimer's disease-associated feature; neuroproceed alzheimer's disease-associated protein isoform; ADPI tryptic digest peptide.
                                                                                                                                                                                                                                                                                                                                                                                        (OXFO-) OXFORD GLYCOSCIENCES UK LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-DEC-2000; 2000US-0254431P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; Alzheimer's disease; AD; brain tissue; ADF; ADFI; Alzheimer's disease-associated feature; neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABG67564;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABG67564 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9
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The present invention relates to methods and compositions screening, diagnosis or prognosis of Alzheimer's disease

s for (AD)

in

CC subject. The method comprises analysing a sample of brain tissue from a CC subject by 2D electrophoresis to generate a 2D array of Alzheimer's CC disease-associated features (ADFs), whose relative abundance correlates CC with the presence, absence, stage or severity of AD and comparing the CC abundance of each feature with the abundance of that chosen feature in CC Drain tissue from persons free from AD. The invention also describes CC Alzheimer's disease-associated protein isoforms (ADFIS) detectable in CC brain tissue. The methods and compositions of the invention are useful CC for the screening, diagnosis or prognosis of AD in a subject, for ce subject at risk of developing AD, or for monitoring the effect of therapy CC administered to a subject having AD. Antibodies capable of binding to CC ADFIS are useful for treatment regime. An agent that modulates the CC efficacy of a given treatment regime. An agent that modulates the CC cativity of ADFI is useful in the manufacture of a medicament for the treatment or prevention of AD in a subject. ABG67292-ABG68038 represent XX Sequence 9 AA; 1 GQVFDV 6 3 GOVMDV 8 53.2%; 83.3%; Score 25; DB 5; Length 9; Pred. No. 1.4e+06; 0; Mismatches 1; Indels 0; Gaps 0;

Search completed: August 23, 2004, 10:53:32 Job time : 124 secs 멍 Š Query Match
Best Local Similarity 83.3
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Post-processing: Minimum Match 0%
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Copyright (c) 1993 - 2004 Compugen Ltd.
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US-10-362-527-1

ALIGNMENTS

Sequence 1, Application US/10362527 Publication No. US20040030106A1 GENERAL INFORMATION:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

14284599999999999999999999999999999999999	Result
447 447 447 477 477 477 477 477 477 477	Score
100.0 100.0 100.0 100.0 100.0 159.6 59.6 59.6 59.6 59.6 59.6 59.6 68.9	Query Match Length DB
9 12 9 12 9 14 9 14 9 15 9 16 9 17 17 17 18 11 48	ength DB
2 US-10-362-527-1 4 US-10-082-014-273 4 US-10-082-014-273 US-10-372-076-127 6 US-10-362-527-11 US-09-842-164-12 2 US-10-377-114-12 5 US-10-377-114-12 2 US-10-147-140-47 US-10-415-014-291 4 US-10-415-014-20 6 US-10-415-014-305 US-09-884-767A-110 4 US-10-066-869-1617 US-10-066-869-1617 US-10-006-869-1623	ID
Sequence 1, Appli Sequence 273, App Sequence 127, App Sequence 127, App Sequence 11, Appl Sequence 12, Appl Sequence 12, Appl Sequence 291, Appl Sequence 291, Appl Sequence 270, App Sequence 270, App Sequence 10, App Sequence 117, App Sequence 1617, App Sequence 1617, App	Description

RESULT 2 US-10-082-014-273 ; Sequence 273, Application US/10082014

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## CURRENT APPLICATION NUMBER: US/10/362,527 CURRENT FILING DATE: 2003-02-21 PRIOR APPLICATION NUMBER: PCT/EP01/09576 PRIOR FILING DATE: 2001-08-17 PRIOR APPLICATION NUMBER: GB 0020717.5 PRIOR FILING DATE: 2000-08-22 NUMBER OF SEQ ID NOS: 328 SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 1 밁 Ş ; TYPE: PRT; ORGANISM: Homo sapiens US-10-362-527-1 Query Match Best Local S Matches 9 APPLICANT: Friede, Martin APPLICANT: Mason, Sean APPLICANT: Turnell, William Gordon APPLICANT: Vinals Y De Bassols, Carlota TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide FILE REFERENCE: B45236 FILE REFERENCE: B45236 LENGTH: 9 1 EDGQVMDVD 9 9; Similarity EDGQVMDVD 9 Conservative 100.0%; 0 Score 47; DB 12; Pred. No. 1.2e+06; ); Mismatches 0; Length 9; Indels 0 Gaps 0;

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GENERAL INFORMATION:

APPLICANT: Page, Mark
APPLICANT: Friede, Martin
APPLICANT: Friede, Martin
TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR
TITLE OF INVENTION: CHRONIC HEPATITIS
FILE REFERENCE: 4564/87179
CURRENT APPLICATION UNMBER: US/10/372,076
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: 10/080,299
PRIOR APPLICATION NUMBER: 10/082,014
PRIOR APPLICATION NUMBER: 10/082,014
PRIOR FILING DATE: 2002-02-22
NUMBER OF SEQ ID NOS: 308
SOFTWARE: PATEENTIN VERSION 3.2
SEQ ID NO 127
LENGTH: 9
TYPE: DET
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US-10-082-014-273
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US-10-372-076-127
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GENERAL INFORMATION:
APPLICANT: Birkett, Ashley J.
TITLE OF INVENTION: IMMUNOSENIC HBC CHIMER PARTICLES STABILIZED WITH AN N-TERMINAL CY
FILE REFERENCE: ICC-130.0 4564/85124
CURRENT APPLICATION NUMBER: US/10/082,014
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 09/930,915
PRIOR FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 290
SOFTWARE: Patentin version 3.1
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Best Local Similarity
APPLICANT: Page, Mark
APPLICANT: Friede, Martin
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Stober, Detlef
TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR
TITLE OF INVENTION: CHRONIC HEPATITIS
FILE REFERENCE: 4564/87179
CURRENT APPLICATION NUMBER: US/10/677,074
CURRENT FILING DATE: 2003-10-01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ) ORGANISM: Homo sapiens US-10-362-527-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
CURRENT APPLICATION NUMBER: US/09/842,164
CURRENT FILING DATE: 2001-04-26
PRIOR APPLICATION NUMBER: JAPAN 2000-125053
PRIOR FILING DATE: 2000-04-26
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.1
SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 10/082,014
PRIOR FILING DATE: 2002-02-22
NUMBER OF SEQ ID NOS: 308
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PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 10/080,299
PRIOR FILING DATE: 2002-02-21
                                                                                                                                                                                                                 GENERAL INFORMATION:
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APPLICANT: Turnell, William Gordon
APPLICANT: Vinals Y De Bassols, Carlota
APPLICANT: Vinals Y De Bassols, Carlota
TITLE OF INVENTION: Vaccine Immunogens Comprising Disulphide Bridged Cyclised Peptide
TITLE OF INVENTION: and Use Thereof in the Treatment of Allergies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Friede,
APPLICANT: Mason,
APPLICANT: Turnell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: PCT/EP01/09576
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: GB 0020717.5
PRIOR FILING DATE: 2000-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: FastSEQ for Windows Version 4.0
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CURRENT FILING DATE: 2003-02-21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Homo sapiens
                                                                                                                                                  APPLICANT: INOUYE, Satoshi
TITLE OF INVENTION: Luciferase and Photoprotein
FILE REFERENCE: 206497US0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 328
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                               63.8%; Score 30; DB 12; 1 100.0%; Pred. No. 1.2e+06; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 7;
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CURRENT APPLICATION NUMBER: US/10/377,714
CURRENT FILING DATE: 2003-03-04
PRIOR APPLICATION NUMBER: US/09/842,164A
PRIOR FILING DATE: 2001-04-26
PRIOR APPLICATION NUMBER: UF 2000-125053
PRIOR FILING DATE: 2000-04-26
INUMBER OF SEQ ID NOS: 40
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 12
LENGTH: 7
                                                                                                      US-10-014-340-291
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                                                                                                              TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and Uses Therefor, Including TITLE OF INVENTION: Diagnosis and Treatment of Alzheimer's Disease FILE REFERENCE: 9195-078 (10/014,340 CURRENT APPLICATION NUMBER: US/10/014,340 CURRENT FILING DATE: 2001-12-10 NUMBER oF SEQ ID NOS: 823 SOFTWARE: Patentin version 3.0 SOFTWARE: Patentin version 3.0 SEQ ID NO 291 LENGTH: 9

TYPE: PRT ORGANISM: Homo sapiens
                                  Matches
                                                   Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                               Sequence 291, Applic Publication No. US20 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 59.6%;
Best Local Similarity 71.4%;
Matches 5; Conservative
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: INOUYE, SATOSHI
TITLE OF INVENTION: LUCIFERASE AND PHOTOPROTEIN
FILE REFERENCE: 206497US0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
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TYPE: PRT
ORGANISM: Oplophorus gracilirostris
FEATURE:
                                                 Local
3 GQVMDV 8
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                               Similarity 5; Conserv
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o. US20030064411A1
                                 Conservative
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                                               53.2%;
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                       Score 25; DB Lz; L
Pred. No. 1.2e+06;
Pred. No. 1.2e+06;
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Pred. No. 1.2e+06;
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Pred. No. 1.2e+06
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                                                          Length 9;
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                           Indels
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APPLICANT: KRUTZCH, HENRY
APPLICANT: MURATA, JUN
ITITLE OF INVENTION: AUTOTAXIN: MOTILITY STIMULATING PROTEIN USEFUL IN
ITITLE OF INVENTION: CANCER DIAGNOSIS AND THERAPY
FILE REFERENCE: 2026-4149US4
CURRENT APPLICATION NUMBER: US/10/147,140
CURRENT FILING DATE: 2002-05-15
PRIOR APPLICATION NUMBER: 07/822,043
PRIOR APPLICATION NUMBER: 08/24,182
PRIOR FILING DATE: 1992-01-17
PRIOR FILING DATE: 1994-05-25
PRIOR APPLICATION NUMBER: 08/346,455
PRIOR APPLICATION NUMBER: 08/346,455
PRIOR APPLICATION NUMBER: 08/346,455
PRIOR APPLICATION NUMBER: 08/346,455
PRIOR APPLICATION NUMBER: 08/377,221
PRIOR FILING DATE: 1997-11-24
NUMBER: 08/977,221
                                                                                                                   APPLICANT: Hubert, Rene S.

APPLICANT: Jakobovits, Aya
TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN
TITLE OF INVENTION: ENTITLED 205P1B5 USEFUL IN TREATMENT AND
FILE REFERENCE: 511592004300
CURRENT APPLICATION NUMBER: US/10/415,014
CURRENT FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: PCT/US02/27760
PRIOR APPLICATION NUMBER: US 60/316,664
PRIOR FILING DATE: 2001-08-31
PRIOR FILING DATE: 2001-08-31
NUMBER OF SEQ ID NOS: 736
US-10-415-014-220
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                                                        SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 220
LENGTH: 9
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Best Local S
Matches 4
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US-10-147-140-47
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                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Challita-Eid, Pia M. APPLICANT: Raitano, Arthur B. APPLICANT: Faris, Mary
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           TYPE: PRT
ORGANISM: Homo sapiens
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APPLICANT: LIOTTA, LANCE
APPLICANT: SCHIFFMANN, EI
APPLICANT: KRUTZCH, HENRY
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Pred. No.
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Sequence 110, Application US/09884767A

Publication No. US20020192789A1

; Publication No. US20020192789A1

; GENERAL INFORMATION:
APPLICANT: Ley, Arthur C.
APPLICANT: Ley, Arthur C.
APPLICANT: Lidner, Christopher J.
APPLICANT: Lidner, Robert C

TITLE OF INVENTION: NOVEL ENTERCKINASE CLEAVAGE SEQUENCES
FILE REFERENCE: DYX-012.1 US, DYX-012.1 PCT
CURRENT APPLICATION NUMBER: US/09/884,767A

CURRENT APPLICATION NUMBER: US/99/884,767A

CURRENT FILING DATE: 2001-06-19

PRIOR APPLICATION NUMBER: US 09/597,321

PRIOR APPLICATION NUMBER: US 09/597,321

PRIOR FILING DATE: 2000-06-19

NUMBER OF SEG ID NOS: 217

SOFTWARE: PatentIn version 3.1

SEQ ID NO 110
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                                                            OTHER INFORMATION: synthetic enterokinase cleavage sequence US-09-884-767A-110
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PRIOR PTLING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/316,664
PRIOR TILING DATE: 2001-08-31
NUMBER OF SEQ ID NOS: 736
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 305
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APPLICANT: Raitano, Arthur B.
APPLICANT: Faris, Mary
APPLICANT: Hubert, Rene S.
APPLICANT: Jakobovits, Aya
TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN
TITLE OF INVENTION: ENTITLED 205P1B5 USEFUL IN TREATMENT AND DETECTION OF CANCER
FILE REFERENCE: 511582004300
CURRENT APPLICATION NUMBER: US/10/415,014
CURRENT FILING DATE: 2003-11-19
CURRENT FILING DATE: 2003-11-19
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Best Local Similarity
Query Match
Best Local Similarity
                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH:
                                                                                                     FEATURE:
                                                                                                                                                                  LENGTH:
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o. US20040110674A1
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    46.8%;
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Pred. No.
  Score 22; DB 9;
Pred. No. 1.2e+06;
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Sequence 1617, Application US/10395032

; Publication No. US20030229199A1

; GENERAL INFORMATION:
   APPLICANT: Blaschuk, Orest W.
   APPLICANT: Symonds, James Matthew
   APPLICANT: Gour, Barbara J.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
   TITLE OF INVENTION: CADHERIN-MEDIATED FUNCTIONS
   FILE REFERENCE: 100086.407C9
   CURRENT APPLICATION NUMBER: US/10/395,032
   CURRENT APPLICATION SHOWN STRONG 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-006-869-1617; Sequence 1617, Application US/10006869; Publication No. US20030082166A1
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COTHER INFORMATION: Representative cyclic modulating agent based of COTHER INFORMATION: cadherin-8 cell adhesion recognition sequence US-10-006-869-1617
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US-10-395-032-1617
                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Representative cyclic modulating agent based on ; OTHER INFORMATION: cadherin-8 cell adhesion recognition sequence US-10-395-032-1617
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CURRENT FILING DATE: 2001-12-03
NUMBER OF SEQ ID NOS: 4052
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1617
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APPLICANT: Symonds, James Matthew
APPLICANT: Gour, Barbara J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
TITLE OF INVENTION: CADHERIN-MEDIATED FUNCTIONS
FILE REFERENCE: 100086.407C7
                                                                                                                                           Matches
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Pred. No. 1.2e+06;
1; Mismatches 1
                                                                                                                                                                                Score 22; DB 15;
Pred. No. 1.2e+06;
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RESULT 15
US-10-06-869-1623
Sequence 1622, Application US/10006869
Publication No. US20030082166A1
GENERAL INFORMATION:
APPLICANY: Blaschuk, Orest W.
APPLICANY: Symonds, James Matthew
APPLICANY: Symonds, James James
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Minimum
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Pending Patents AA New:*

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equence 1196,	e 112	666	•	306,	Sequence 1/6, App	11000	28603	e 27391.	15379	Sequence 1135. An	245	e 245	e 411	e 411	e 41,	e 10	(D	Φ ω	e 72	e 48, App	e 26906	e 149	e 653,	e 141,	e L	Sequence 127, App	Description

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## ALIGNMENTS

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RESULT 2
PCT-US03-39164A-141
Sequence 141, Application PC/TUS0339164A
Sequence 141, Application PC/TUS0339164A
GENERAL INFORMATION:
APPLICANT: ASHLEY, BIRKETT J.
APPLICANT: Lyons, Katelynne J.
APPLICANT: Jay, Haron J.
APPLICANT: Jay, Haron J.
CURRENT OF INVENTION: STABILIZED IMMUNOGENIC HBc CHIMER PARTICLES
FILE REFERENCE: ICC-136.0PCT (4564-91156)
CURRENT APPLICATION NUMBER: PCT/US03/39164A
CURRENT FILING DATE: 2003-12-10
FRIOR APPLICATION NUMBER: US 60/432,123
FRIOR FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: PCT/US03/05196
PRIOR FILING DATE: 2003-02-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Page, Mark
APPLICANT: Friede, Martin
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Schmidt, Annette Elisabeth
APPLICANT: Stober, Detlef
ITITLE OF INVENTION: STABLIZED HBc CHIMER PARTICLES AS:
ITITLE OF INVENTION: CHRONIC HEPATITIS
ITITLE OF INVENTION: CHRONIC HEPATITIS
ITITLE OF INVENTION UNMER: PCT/US04/05047
CURRENT FILING DATE: 2004-02-20
PRIOR APPLICATION NUMBER: 10/677,074
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: 10/372,076
PRIOR APPLICATION NUMBER: 10/372,076
PRIOR FILING DATE: 2003-02-21
NUMBER OF SEQ ID NOS: 308
SOFTWARE: Patentin version 3.2
SEQ ID NO 127
LENGTH: 9
ITYPE: PRT
ORGANISM: Homo sapiens
PCT-US04-05047-127
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100.0%; Pred. No.
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Best Local Similarity
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Best Local
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PRIOR FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: US 10/274,616
PRIOR ETLING DATE: 2002-10-21
PRIOR APPLICATION NUMBER: US 10/080,299
PRIOR PILING DATE: 2002-02-21
PRIOR PILING DATE: 2002-02-21
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PRIOR FILING DATE: 2002-02-22
NUMBER OF SEQ ID NOS: 455
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TITLE OF INVENTION: STABILIZED IMMUNOGENIC HBC CHIMER PARTICLES
FILE REFERENCE: ICC-136.0 (4564-88881)
CURRENT APPLICATION NUMBER: US/10/732,862A
CURRENT FILING DATE: 2003-12-10
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APPLICANT: RATTI Giulio
APPLICANT: SCARLATO Vincenzo
APPLICANT: SCARSELLI Maria
TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
FILE REFERENCE: 2300-1654 (PP01654.003)
CURRENT APPLICATION NUMBER: US/10/111,983
CURRENT FILING DATE: 2003-06-27
PRIOR APPLICATION NUMBER: US-60/162616
PRIOR FILING DATE: 1999-10-29
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TYPE: PRT
ORGANISM: Homo sapiens
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GRANDI Guido
MASIGNANI Vega
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RAPPUOLI Rino
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100.0%; Pred. No.
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Pred. No. 6e+05;
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Best Local S
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SEQ ID NO 653
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Matches 4; Conserv
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APPLICANT:
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CURRENT APPLICATION NUMBER: US/10/111,983
CURRENT FILLING DATE: 2003-06-27
ERIOR APPLICATION NUMBER: US-60/162616
PRIOR FILING DATE: 1999-10-29
NUMBER OF SEQ ID NOS: 37764
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        APPLICANT: RATTI Giulio
APPLICANT: SCARLATO Vincenzo
APPLICANT: SCARSELLI Maria
TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
FILE REFERENCE: 2300-1654 (PP01654.003)
CURRENT APPLICATION NUMBER: US/10/111,983
CURRENT FILING DATE: 2003-06-27
CURRENT FILING DATE: 2003-06-27
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APPLICANT: GALEOTTI Cesi
APPLICANT: GRANDI Guido
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ORGANISM: Neisseria
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PRIOR APPLICATION NUMBER: US-60/162616
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RAPPUOLI Rino
RATTI Giulio
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Pred. No. 6e+0
3; Mismatches
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Pred. No. 6e+05;
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6e+05;
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US-10-712-425-722
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US-10-693-657-48
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                                                                                                                                                                                                                                                         Sequence 722, Application US/10712425
GENERAL INFORMATION:
APPLICANT: LEE, FRANK D.
APPLICANT: MENG, XIN
APPLICANT: LIVINGSTON, DAVID
           APPLICAN: LIVINGSTON, DAVID
TITLE OF INVENTION: PROTEOME EPITOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
TITLE OF INVENTION: MODIFICATION ANALYSIS
FILE REFERENCE: BROGE-002-001
CURRENT FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: 60/379,626
PRIOR FILING DATE: 2002-05-10
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/393,137
PRIOR APPLICATION NUMBER: 60/393,137
PRIOR APPLICATION NUMBER: 60/393,137
PRIOR PILING DATE: 2002-07-01
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Best Local Similarity
Matches 4; Conserv
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NUMBER OF SEQ ID NOS: 37764
SOFTWARE: SeqWin99, version 1.02
SEQ ID NO 26906
LENGTH: 8
TYPE: PRT
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APPLICANT: Quiniou, Christiane
TITLE OF INVENTION: Cytokine receptors modulators, method of identifying same, a TITLE OF INVENTION: method of modulating cytokine receptors activity with same CURRENT FILE REPERENCE: GOUD: 040US
CURRENT APPLICATION NUMBER: US/10/693,657
CURRENT FILING DATE: 2003-10-24
PRIOR APPLICATION NUMBER: 60/420,679
PRIOR FILING DATE: 2002-11-05
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APPLICATION NUMBER: 60/393,211
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Pred. No. 6e+05;
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Pred. No.
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                                                                                                                                                              Sequence 44, Application PC/TIL0300501A GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.2
SEQ ID NO 3
LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
APPLICANT: GAVISH-GALILEE BIO APPLICATIONS LTD.

APPLICANT: GROSS, Gideon
APPLICANT: MARGALIT, Alon

TITLE OF INVENTION: MEMBRANE-ANCHORED BETA-2 MICROGLOBULIN COVALENTLY LINKED TO MHC

TITLE OF INVENTION: PEPTIDE EPITOPES

FILE REFERENCE: GAVISH-004 PCT

CURRENT APPLICATION NUMBER: PCT/IL03/00501A

CURRENT FILING DATE: 2003-06-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/059,447B CURRENT FILING DATE: 2002-01-29 PRIOR APPLICATION NUMBER: 60/064,683 PRIOR FILING DATE: 1997-11-03 PRIOR APPLICATION NUMBER: 10/185,476 PRIOR FILING DATE: 1998-11-03 NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Smith, Daniel
TITLE OF INVENTION: ALPHA-N-ACETYLGALACTOSAMINIDASE FROM CLOSTRIDIUM PERFRINGENS
FILE REFERENCE: 0994.00134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2002-12-04
PRIOR APPLICATION NUMBER: 60/433,319
PRIOR FILING DATE: 2002-12-13
Remaining Prior Application data removed
NUMBER OF SEQ ID NOS: 1386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/393,233
PRIOR FILING DATE: 2002-07-01
PRIOR APPLICATION NUMBER: 60/393,235
PRIOR FILING DATE: 2002-07-01
PRIOR APPLICATION NUMBER: 60/393,280
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TYPE: PRT
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PRIOR APPLICATION NUMBER: 60/430,948
                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Clostridium perfringens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Human severe acute respiratory syndrome virus
                                                                                                                                                                                                                                                                                                                                                 Local Similarity nes 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2002-07-01
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Pred. No. 6e+0
4; Mismatches
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Pred. No.
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6e+05;

    See File Wrapper or PALM.

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; OTHER INFORMATION: Synthetic PCT-IL03-00501A-44
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SOFTWARE: SeqWin99, version 1.02
SEQ ID NO 10642
LENGTH: 9
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PRIOR FILING DATE: 2002-06-12
NUMBER OF SEQ ID NOS: 64
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EQ ID NO 44
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APPLICANT:
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CURRENT FILING DATE: 2003-06-27
CURRENT FILING UNMEER: US-60/162616
PRIOR APPLICATION NUMBER: US-60/162616
PRIOR FILING DATE: 1999-10-29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: CHIRON SPA
APPLICANT: BURROWS, SCOTT R.
TITLE OF INVENTION: EBV CTL EPITOPES
FILE REFERENCE: FBRC:008
CURRENT APPLICATION NUMBER: US/10/752,380
CURRENT FILING DATE: 2004-01-06
PRIOR APPLICATION NUMBER: US/09/194,450
PRIOR FILING DATE: 1999-06-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES FILE REFERENCE: 2300-1654 (PP01654.003)
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                                                                                                         APPLICANT: KHANNA, RAJIV
APPLICANT: KERR, BEVERLEY M.
APPLICANT: MISKO, IHOR S.
APPLICANT: MOSS, DENIS J.
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ORGANISM: Artificial Sequence
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nes 3; Conserv
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SCARLATO Vincenzo
SCARSELLI María
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MORA Mariarosa
PIZZA Mariagrazia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RAPPUOLI Rino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MASIGNANI Vega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GRANDI Guido
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Pred. No.
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Pred. No.
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APPLICANT: ASHLEY, BIRKETT J.
APPLICANT: Lyons, Katelynne J.
APPLICANT: Lyons, Katelynne J.
APPLICANT: Lyons, Katelynne J.
APPLICANT: Jay, Haron J.
TITLE OF INVENTION: STABILIZED IMMUNOGENIC HBc CHIMER PARTICLES
FILE REFERENCE: ICC-136.0 (4564-88881)
CURRENT APPLICATION NUMBER: US/10/732,862A
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: US 00/432,123
PRIOR FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: US 10/274,616
PRIOR APPLICATION NUMBER: US 10/274,616
PRIOR FILING DATE: 2002-10-21
PRIOR APPLICATION NUMBER: US 10/080,299
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 10/080,299
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 10/082,014
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APPLICANT: ASSILEY, BIRKETT J.
APPLICANT: Lyons, Katelynne J.
APPLICANT: Jay, Haron J.
APPLICANT: Jay, Haron J.
APPLICANT: Jay, Haron J.
APPLICANT: Jay, Haron J.
APPLICANT: COLUMN STABILIZED IMMUNOGENIC HBc CHIMER PARTICLES
FILE REFERENCE: ICC-136.0PCT (4564-91156)
CURRENT APPLICATION NUMBER: PCT/US03/39164A
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: US 60/432,123
PRIOR FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: PCT/US03/05196
PRIOR FILING DATE: 2003-02-20
PRIOR FILING DATE: 2003-02-20
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SOFTWARE: PatentIn Ver. 2
SEQ ID NO 41
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                                                                                                                                                                                                                                                                                                                                              Sequence 411, Application US/10732862A GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial sequence
FEATURE:
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FILING DATE:
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100.0%; Pred. No.
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Pred. No. 6e+0
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6e+05;
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RESULT 15

US-10-805-913-245

US-10-805-913-245

Sequence 245, Application US/10805913

GENERAL INFORMATION:

APPLICANT: Birkett, Ashley J.

TITLE OF INVENTION: INMUNOSENIC HBC CHIMER PARTICLES HAVING ENHANCED

TITLE OF INVENTION: STABLITY

FILE REFERENCE: 4564/91645 ICC-102.2 DV II

CURRENT FILING DATE: 2004-03-22

PRIOR APPLICATION NUMBER: US/10/805,913

CURRENT FILING DATE: 2001-08-15

PRIOR APPLICATION NUMBER: PCT/US01/41759

PRIOR FILING DATE: 2001-08-16

PRIOR APPLICATION NUMBER: 60/226,867

PRIOR PRILING DATE: 2000-08-22

PRIOR APPLICATION NUMBER: 60/226,867

PRIOR APPLICATION NUMBER: 60/225,843

PRIOR FILING DATE: 2000-08-12

PRIOR PILING DATE: 2000-08-16

NUMBER OF SEQ ID NOS: 313

SOFTWARE: Patentin Ver. 2.1

CRGANISM: Hepatitis B virus

US-10-805-913-245
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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 411
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: primer protein seugence
US-10-732-862A-411
Search completed: August 23, 2004, 11:05:16 Job time : 59 secs
                                                                                                                                           Query Match
Best Local Similarity
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42.6%; Score 20; DB 6; Length 6;
Best Local Similarity 75.0%; Pred. No. 6e+05;
Matches 3; Conservative 1; Mismatches 0; Indels
                                                                                6 MDVD 9
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                                                                                                                                                        42.6%; Score 20; DB 6; Length 6; 75.0%; Pred. No. 6e+05; Indels
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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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                   Pred. No. score grea and is der
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seq length: 9
                   No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, s derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of hits satisfying chosen parameters:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Issued_Patents_AA:*

1: /cgn2_6/ptodata/2,

2: /cgn2_6/ptodata/2,

3: /cgn2_6/ptodata/2,

4: /cgn2_6/ptodata/2,

5: /cgn2_6/ptodata/2,

6: /cgn2_6/ptodata/2,
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Match
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47
1 EDGQVMDVD 9
               August 23, 2004, 10:53:41; Search time 31 Seconds (without alignments)
14.988 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
/cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/2/iaa/BCTUS_COMB.pep:*
/cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
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               DB
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                                           US-09-842-164A-12
US-08-346-455B-47
US-08-346-455B-47
US-08-346-455B-47
US-09-483-831B-47
US-09-483-831B-47
US-09-843-1155-8
US-08-421-155-8
US-09-187-859-1617
US-08-421-155-6
US-09-187-866-20
US-09-187-866-20
US-09-187-869-1623
US-09-187-859-1623
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US-09-3116-766-26
US-09-3116-766-26
US-09-3116-766-26
US-09-3116-766-26
US-09-311-710-25
US-09-648-386-25
US-09-648-386-25
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Sequence 12, Appl Sequence 47, Appl Sequence 47, Appl Sequence 47, Appl Sequence 26, Appl Sequence 8, Appl Sequence 8, Appl Sequence 8, Appl Sequence 1617, App Sequence 6, Appl Sequence 6, Appl Sequence 6, Appl Sequence 6, Appl Sequence 1623, Appl Sequence 1623, Appl Sequence 1623, Appl Sequence 1623, Appl Sequence 1626, Appl Sequence 1626, Appl Sequence 26, Appl Sequence 26, Appl Sequence 26, Appl Sequence 27, Appl Sequence 26, Appl Sequence 27, Appl Sequence 26, Appl Sequence 26, Appl Sequence 27, Appl Sequen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Description
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APPLICANT: INGUYE, SATOSHI

TITLE OF INVENTION: LUCIFERASE AND PHOTOPROTEIN

FILE REFERENCE: 206497US0

CURRENT APPLICATION NUMBER: US/09/842,164A

CURRENT FILING DATE: 2001-04-26

PRIOR APPLICATION NUMBER: UP 2000-125053

PRIOR APPLICATION NUMBER: UP 2000-4-26

NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn version 3.1

SEQ ID NO 12
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; Sequence 12, Application US/09842164A; Patent No. 6544754
; GENERAL INFORMATION:
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## ALIGNMENTS

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RESULT 2
US-08-346-455B-47
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; Patent No. 5
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Best Local Similarity
Watches 5; Conserv:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Oplophorus gracilorostris
US-09-842-164A-12
                                                                                                                                                                                                                                                   GENERAL INFORMATION:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
                                                                                                                         APPLICANT: UNITED STATES OF AMERICA; DEPT.
APPLICANT: OF HEALTH AND HUMAN SERVICES
TITLE OF INVENTION: MOTILITY STIMULATING
TITLE OF INVENTION: PROTEIN USEFUL IN CANCER DIAGNOSIS
TITLE OF INVENTION: THERAPY
NUMBER OF SEQUENCES: 69
CORRESPONDENCE ADDRESS;
ADDRESSEE: MORGAN & FINNEGAN
                                                 STATE: NEW COUNTRY: U. ZIP: 10154
                                                                                              STREET: 345 PARK AVENUE CITY: NEW YORK
                                                                                                                                                                                                                                                                     7, Application US/08346455B
5731167
                                                              NEW YORK
                                                                                                                                                                                                                                                                                                                                                                              GQVMDVD 9
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Pred. No. 3e+0
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 4;
3e+05;
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; LOCATION:
; IDENTIFICATION METHOD:
; OTHER INFORMATION:
US-08-346-455B-47
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US-08-977-221-47
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Best Local Similarity
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Patent No. 6084069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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REFERENCE/DOCKET NUMBER: 2026-4149PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 759-4800
TELEPAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 07/822,043 FILING DATE: 17-JAN-1992 ATTORNABY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/2-
FILING DATE: 25-MAY-1994
PRIOR APPLICATION DATA:
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CLASSIFICATION: 530
PRIOR APPLICATION DATA:
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DESCRIPTION:
                                                                                                                                                                                                                                                            APPLICANT: UNITED STATES OF AMERICA; DEPT.
APPLICANT: OF HEALTH AND HUMAN SERVICES
TITLE OF INVENTION: MOTILITY STIMULATING
TITLE OF INVENTION: PROTEIN USEFUL IN CANCER DIAGNOSIS AND
TITLE OF INVENTION: THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYPOTHETICAL: No
            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
MCOMPUTER: IEM PC compatible
COMPUTER: EM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WOrdPerfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 24-MA
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STRANDEDNESS: single
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                                                                                                                     COUNTRY: U
ZIP: 10154
                                                                                                                                                      CITY: NEW YORK
STATE: NEW YORK
                                                                                                                                                                                           STREET:
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                                                                                                                                                                                           ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
APPLICATION NUMBER:
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US/08/977,221
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Pred. No. 3e+05;
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                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/483,831B
CURRENT EILING DATE: 2000-01-17
PRIOR APPLICATION NUMBER: 07/822,043
PRIOR FILING DATE: 1992-01-17
PRIOR APPLICATION NUMBER: 08/249,182
PRIOR APPLICATION NUMBER: 08/249,182
PRIOR FILING DATE: 1994-05-25
PRIOR PRIOR DATE: 1994-11-28
PRIOR FILING DATE: 1994-11-28
PRIOR APPLICATION NUMBER: 08/977,221
PRIOR APPLICATION NUMBER: 08/977,221
                                                                                  PRIOR FILING DATE: 1997-11-24
NUMBER OF SEQ ID NOS: 70
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 47, Application US/09483831B Patent No. 6417338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: STRACKE,
                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: AUTOTAXIN: MOTILITY STIMULATING PROTEIN USEFUL IN
                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 2026-4149US4
                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: 20. TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 17-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: DOROTHY R. AUTH
                                                   LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 28-NOV-1994 PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE:
DESCRIPTION: Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
OTHER INFORMATION: Description of Artificial Sequence:
                 FEATURE:
                                 ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 25-MA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IDENTIFICATION METHOD: OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: ATX-216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                 MURATA, JUN
                                                                                                                                                                                                                                                                                                                                                                                               SCHIFFMANN, ELLIOTT
                                                                                                                                                                                                                                                                                                                                                                                                                   LIOTTA,
                                                                                                                                                                                                                                                                                                                                                                               KRUTZCH, HENRY
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80.0%;
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2026-4149US3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 8;
        Synthetic
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; IDENTIFICATION METHOD: ; OTHER INFORMATION: PCT-US95-06613-47
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 Query Match
Best Local Similarity
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Best Local Similarity 80.0%;
Matches 4; Conservative
                                                                                                                                                                                                                                                                      TELEFAX: (212) 751-6849 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/249,182
FILING DATE: 25-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/822,043
FILING DATE: 17-JAN-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/0661.
                                                                                                                                                            MOLECULE TYPE:
DESCRIPTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: STRACKL,
APPLICANT: SCHIFFMANN, ELLLUI,
APPLICANT: SCHIFFMANN, ELLLUI,
APPLICANT: HENRY, MURATA, JUN
TITLE OF INVENTION: MOTILITY STIMULATING
TITLE OF INVENTION: PROTEIN USEFUL IN CANCER DIAGNOSIS AND
TOTAL OF INVENTION: THERAPY
                                                                                                                                              HYPOTHETICAL:
                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 36,434
REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/3-FILING DATE: 28-NOV-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION DATA:
PRIOR APPLICATION NUMBER: 08/346,455
                                                                                                LOCATION
                                                                                                                                                                                         TOPOLOGY:
                                                                                                               NAME/KEY: ATX-216
                                                                                                                                                                                                        TYPE: amino acids
STRANDEDNESS: sinc
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                                                                                                                                                                                                                                                                                                     TELEPHONE:
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                                                                                                                                                                                                                                          ENGTH:
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                                                                                                                                                          Peptide
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 48.9%;
80.0%;
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Score 23; DB 5;
Pred. No. 3e+05;

    Mismatches

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Pred. No. 3e+05;
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             Length 8;
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US-08-421-155-8
; Sequence 8, Application US/08421155
; Patent No. 5703057
; GENERAL INFORMATION:
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                                                                                                    RESULT 7
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US-08-447-010-26
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 APPLICANT:
APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEPAX: (416) 595-1163
                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, MICHAEL I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION DATA:
PRIOR APPLICATION NUMBER: US 08/230,695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDLUM TYPE: Floppy disk
COMPUTER: IBM Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: MOFFATT, TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                   STRANDEDNESS: SIR
                                                                                                                                                                                                                    Local
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FILING DATE: 21-APR-1994
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                    LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE: 26-MAY
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STATE: Ontario
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o. 5770718
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Barry, Michael A.
Lai, Wayne C.
Johnston, Stephen
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                                                                                                                                                                                             46.8%; Score 22;
100.0%; Pred. No.
tive 0; Mismatch
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Stephen A.

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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-421-155-8
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US-08-232-539D-26
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Matches 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (713) 789-26'
TELEX: 79-0924
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Presta, Leonard G.
APPLICANT: Dardieu, Paula M.
TITLE OF INVENTION: 13E Antagonists
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
            MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy COMPUTER: 1EM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WinPatin (Genentech) CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,539D FILING DATE: 21-Apr-1994
CLASSIFICATION SOME 530
PRIOR APPLICATION DATA:
APPLICATION UMMER: 08/178583
FILING DATE: 07-DAN-1994
FILING DATE: 07-DAN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: EX NUMBER OF SEQUENCES: 8 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPOTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: UT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
ATTORNBY/AGENT INFORMATION:
NAME: Kicchell, Barbara S.
REGISTRATION NUMBER: 33,928
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                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inc
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PRIOR APPLICATION DATA:
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STRANDEDNESS:
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CITY: South San Francisco
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                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                              STATE:
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                                                                                                                                                                                                                                                            California
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                                                                                                                                                                                                                                             USA
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                                                                                                                                                                                           1.44 Mb floppy disk
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Pred. No.
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US-09-001-157-8
                                                              US-09-001-157-8
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 650/952-981
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Johnston, Stephen
APPLICANT: Barry, Michael A.
APPLICANT: Lai, Wayne C.
APPLICANT: Lai, Wayne C.
   Best Local Similarity
Matches 3; Conserv
                              Query Match
                                                                                                                                                                                                  APPLICATION NUMBER: US 08/421
FILING DATE: 07-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTXL
TELECOMMUNICATION INFORMATION:
                                                                                                                                                         INFORMATION FOR SEQ ID NO:
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REFERENCE/DOCKET NUMBER: POTELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 14-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEVERING ADDRESS:
CORRESPONDENCE ADDRESS:
Arnold, White & Durkee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                          TELEFAX:
                                                                                                                                                                                                                                                                                                                              CLASSIFICATION
                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/001,157
                                                                                               STRANDEDNESS:
                                                                                                                                                                                         TELEPHONE:
                                                                                TOPOLOGY:
                                                                                                                            LENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 EDGQ 4
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                                                                                                          amino acid
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P.O. Box 4433
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46.8%;
nilarity 60.0%;
Conservative
                                                                                                                             6 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                            Release #1.0, Version #1.30
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                                                                                                                                                                                                                                                                                                   US 08/421,155
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; Pred. No.
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    Score 22; DB 2;
Pred. No. 3e+05;
2; Mismatches
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RESULT 12
US-08-421-155-6
; Sequence 6, Ap
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US-09-187-859-1617
; Sequence 1617, Application US/09187859A
; Satent No. 6358920
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; OTHER INFORMATION: Representative cyclic modulating agent based on
; OTHER INFORMATION: cadherin-8 cell adhesion recognition sequence
US-09-187-859-1617
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; LENGTH: 7
; TYPE: PRT
                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/839,542B
CURRENT FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 4052
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1617
                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent No. 6569996
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1617, Application US/09839542B
                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Blaschuk, Orest W.
APPLICANT: Symonds, James Matthew
APPLICANT: Symonds, James Matthew
APPLICANT: Gour, Barbara J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
TITLE OF INVENTION: CADHERIN-MEDIATED FUNCTIONS
FILE REFERENCE: 100086.407D1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
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APPLICANT: Blaschuk, Orest W.
APPLICANT: Gour, Barbara J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
TITLE OF INVENTION: CADHERIN-MEDIATED FUNCTIONS
TILE REFERENCE: 100086.407C1
CURRENT APPLICATION NUMBER: US/09/187,859A
CURRENT FILING DATE: 1998-11-06
NUMBER OF SEQ ID NOS: 4052
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                TYPE: PRT
                                                                                                                                                                                                                                                                                            FEATURE:
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 6, Application US/08421155
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Pred. No. 3e+05;
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Pred. No. 3e+05;
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US-08-571-985-20
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Best Local Similarity
Watches 3; Conserve
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                                                                                                                                                                                                                                                                                                                                 Sequence 20,
Patent No. 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Barry, Michael A.
APPLICANT: Lai, Wayne C.
APPLICANT: Johnston, Stephen A
ITILE OF INVENTION: Expression
NUMBER OF SEQUENCES: B
                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No. 5703057
                                                                                                                                                                                             APPLICANT: Burstein, Yigal
APPLICANT: Trainin, Nathan
APPLICANT: Trainin, Nathan
APPLICANT: Rycus, Avigail
TITLE OF INVENTION: THF-gamma2 Analogs and P
TITLE OF INVENTION: Compositions Comprising
TOWN OF SECUENCES: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSD:411/KIT
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS LENGTH: 8 amino acids
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/421,155
FILING DATE:
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ADDRESSEE: Arnold, White & Durkee
                                                                                                                                                                  STREET:
                                                                                                                                       STATE:
                                                                                                                                                 CITY: Farmington Hills
                                                                                                                                                                                   ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: Un
                                                                                                                    COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (512) 418-3000
TELEFAX: (713) 789-2679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
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5783557
                                                                                                                                 Michigan
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                                                                                                                                                                  30500 No.
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                                                                                                                    USA
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WENTION: Expression Library Immunization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           United States of America
                                                                                                                                                         Kohn & Associates
500 No. 5783557thwestern Hwy., Suite 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 22; DB
Pred. No. 3e+0
2; Mismatches
                  Version #1.25
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US-08-571-985-20
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US-08-487-860-60
US-08-487-860-60
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APPLICATION NUMBER: IL 106214
APPLICATION NUMBER: 01-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kohn, Kenneth I
REGISTRATION NUMBER: 30,955
REFERENCE/DOCKET NUMBER: 2163.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810) 539-5050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READBLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,860
FILING DATE: 07-UNM-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: NATE: CS-Name
NAME: NATE: CS-Name
NAME: NAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 60,
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INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Yelton, Dale
APPLICANT: Haser, Scott
APPLICANT: Huse, William
APPLICANT: Rosok, Mae J.
                                                                                                                                                                                                                                                          TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO:
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: No. 5792456el Mutant BR96 Antibodies and TITLE OF INVENTION: Functional Equivalents Reactive With Human Carcinomas NUMBER OF SEQUENCES: 62
                                                                                                                                                                                                                                                                                                                                       NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
                                          MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE: CLASSIFICATION: 51
                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Bldv., Suite 400
CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 90025-3395
                                                                                                                   STRANDEDNESS
                                                                         TOPOLOGY:
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100.0%; Pred. No. 3e-
ative 0; Mismatches
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Query Match
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US-09-116-766-20
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                                                       Matches
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                                                                   Best
                                                                                Query Match
                                                                                                                                                                                                 TELEFAX: (248) 539-5055
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                              FILING DATE: 01-JUL-1993
ATTORNEY AGENT INFORMATION:
NAME: MONIGOMERY, 11ene N.
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 2163
TELECOMMUNICATION INFORMATION:
TELEPHONE: (248) 539-5050
                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Trainin, Nathan APPLICANT: Rycus, Avigail
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                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
PRIOR APPLICATION NUMBER:
                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
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TOPOLOGY:
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                                                                   Local Similarity
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GY: linear
 EDGQ 5
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30500 No. 5968898thwestern Hwy., Suite 410
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                                                      Conservative
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                                                       46.8%; Score 22; DB 2; Length 8; 100.0%; Pred. No. 3e+05; tive 0; Mismatches 0; Indels
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Pred. No. 3e+05;
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Search completed: August 23, 2004, 11:04:14 Job time : 33 secs